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NOS. 289 - 294

Bibliography of Low Energy Electron Collision Cross Section Data

United States Department of Commerce
National Bureau of Standards
Miscellaneous Publication 289

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[1] Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D. C., 20234.

[2] Located at Boulder, Colorado, 80302.

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UNITED STATES DEPARTMENT OF COMMERCE
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NATIONAL BUREAU OF STANDARDS • A. V. Astin, *Director*

Bibliography Of Low Energy Electron Collision Cross Section Data

L. J. Kieffer

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National Bureau of Standards
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BIBLIOGRAPHY OF LOW ENERGY ELECTRON COLLISION CROSS SECTION DATA†

L. J. Kieffer

A bibliography of low energy electron collision cross section data is presented. Only references which report original measurements or calculations of electron collision cross sections are included. The cross section data for each process are listed by atomic species in order of their atomic number. The data for molecules are listed in arbitrary order.

Key Words: atom, molecule, electron, collision cross section

INTRODUCTION

The Joint Institute for Laboratory Astrophysics (JILA) maintains an Information Center for collecting reports which contain information of interest to plasma physicists and astrophysicists. Because of the availability of information from other data centers, our scope is confined to low energy atomic collision data. Our obligation to the National Standard Reference Data System requires that we make available to the general scientific and technical community critically evaluated data for electron and photon collisions with atoms and simple molecules.

This Bibliography has been issued previously in report form (JILA Reports #4 and #34, and JILA Information Center Report #2). All previous versions of this bibliography, and this one, have included all of the bibliographic material in our files at the time of publication. The current literature for this publication was searched through October 1966. Because we rely upon the abstracting journals to obtain references from sources which do not in general contain information of interest, there may be some material from late 1966 which is not included in this bibliography. The current scientific literature will be searched for this material on a continuing basis and all future bibliographic material will be issued in conjunction with the publication of critically evaluated data.

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† This research was supported in part by the Advanced Research Projects Agency (Project DEFENDER), monitored by the U. S. Army Research Office-Durham, under Contract DA-31-124-ARO-D-139, and in part by the National Bureau of Standards through the National Standard Reference Data Program.

Electron Scattering Cross Section Bibliography

The criterion used in choosing the references for this bibliography is that the publication contain original measurements or calculations of electron cross sections in the energy range 0 to 10 KeV for specific atomic or molecular targets. The upper limit on the energy was not used as an absolute limit but indicates the order of magnitude of interest. This means that one should not expect to find electron collision cross sections in the range of 50 KeV and above.

Papers containing the following quantities, which are not explicitly cross sections, have also been collected:

1. phase shifts,
2. scattering lengths,
3. ionization efficiencies,
4. excitation efficiencies.

The reason for including these quantities is that under the proper conditions cross sections have been or can be simply derived from them.

Published manuscripts, theses, reports given at meetings, and company or agency reports which have been printed and circulated are included in the bibliography. However, reference is not made to material that is unavailable either through library facilities or government document centers. (No classified material is included.)

There is a tendency for authors to publish material which is identical to that which they have reported on at a meeting (which is printed and circulated) and also issued as a company or agency report. In some cases it is possible to verify that this is so and in those cases only one reference (the formal publication if there is one) is kept in our bibliography. In most cases it is not possible to make such a precise distinction among such documents, since only some of the material may have been made available before. Because of this, there may be cases of duplication in the sense that there may be more than one reference to the same original data. We have tried to keep this to a minimum consistent with our aim of collecting all published data.

Inclusion of a reference in this bibliography does not imply a value judgment about the accuracy of the information. We only assert that this reference reports a measured or calculated electron collision cross section (or the equivalent as described previously). The question of the accuracy of the data is to be covered in separate published critical reviews [see, for example, Reviews of Modern Physics, 38, 1, (1966)].

Description of the Bibliography Format

The Electron Cross Section Bibliography is divided into three main sections. The first section describes the data which are in the references included in the bibliography. The data are categorized by a hierarchy of descriptors in the following order:

1. Process (e.g., elastic scattering, electronic excitation, etc.)
2. Experimental or Theoretical
3. Normalized or Relative
   (The data are considered normalized if given in absolute units.)
4. Atomic or Molecular Species including the degree of ionization of the species.
   (A negative ion is indicated by a minus sign; neutral unexcited species by a blank; neutral excited species by a star; and a positive ion by a number indicating the degree of positive ionization. All of these symbols follow the atomic species, which are listed in ascending order of nuclear charge, Z. Molecular species are listed in arbitrary order.)
5. The references in which the data described are found. The references are identified by an arbitrary file number, the first author and the year of publication (e.g., 63 implies 1963).

The following comments about categories (see Contents) are necessary in order to use the bibliography properly. Category ELASTIC SCATTERING, for theoretical papers, includes all references to elastic scattering cross section computations except differential elastic scattering cross section references, which are given in a separate category. In the case of experimental papers only those references in which cross section measurements were reported with energy discrimination for the scattered electrons are included under ELASTIC SCATTERING.

Category TOTAL SCATTERING includes theoretical papers which give a total cross section which is the sum of elastic and inelastic cross sections. It also includes any references to experimentally determined cross sections in which the experiment does not distinguish between elastically and inelastically scattered electrons even if the experiment is carried out in an energy range in which only elastic scattering is expected.

The second section lists the title, authors and complete reference for the paper cited. These are ordered by their "file" number.

The abbreviations for journal titles are taken from Chemical Abstracts or if not abstracted there, from Science Abstracts, Section A: Physics Abstracts.

The third section consists of an alphabetical author index. After each name is a list of the "file" numbers of articles authored or co-authored to be found in the bibliographic section.

The author would like to gratefully acknowledge the assistance of the staff of the JILA Information Center. The computer programs used for this report were written by Patricia Ruttenberg. The manuscript was prepared by Mary Ann Lefler and Elizabeth Hosack.

TOTAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZEO

H	0933 COOY,64	
HE	0273 ALLEN,37	0274 GOLOAN,63
	0330 WESTIN,49	0637 LANGMUIR,28
	0734 GRAHAM,S4	
NE	0273 ALLEN,37	0330 WESTIN,49
	0637 LANGMUIR,28	0734 GRAHAM,S4
NA	0679 OEHMELT,58	
AR	0273 ALLEN,37	0292 ENGELHAROT,64
	0330 WESTIN,49	0637 LANGMUIR,28
	0734 GRAHAM,S4	1909 MAZING,66
KR	0739 CHEN,63	
R8	0522 8ALLING,64	
XE	0739 CHEN,63	
CS	1346 8ALLING,64	1909 MAZING,66
HG	0069 ARNOT,3S	0637 LANGMUIR,28
H2	0260 ENGELHAROT,63	0637 LANGMUIR,28
N2	038I LASSETTRE,57	0637 LANGMUIR,28
C O	0374 LASSETTRE,53	
O2	0260 ENGELHAROT,63	

RELATIVE

H	1593 KLEINPOPPEN,65	
HE	0300 SCHULZ,63	0517 SCHULZ,63
	05I8 FLEMING,63	0529 SCHULZ,64
	1347 KUYATT,65	
NE	0052 ARNOT,31	0300 SCHULZ,63
	0529 SCHULZ,64	1004 HUGHES,33
	1347 KUYATT,65	
AR	0020 HUGHES,32	0049 8ULLARO,3I
	0052 ARNOT,31	1347 KUYATT,65
K	0610 FRANKEN,58	
KR	0052 ARNOT,31	0529 SCHULZ,64
	1347 KUYATT,65	
XE	0052 ARNOT,31	0S29 SCHULZ,64
	I347 KUYATT,65	
HG	1347 KUYATT,65	
H2	0052 ARNOT,31	I085 KUYATT,64
	147I KUYATT,66	
N2	0052 ARNOT,31	0300 SCHULZ,63
	1924 SCHULZ,66	
C O	0052 ARNOT,31	
C H4	0052 ARNOT,31	
H O	147I KUYATT,66	
O2	147I KUYATT,66	

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZEO

H	0028 CORINALOESI,63	0032 GORSHANOVA,62
	0044 8URKE,62	0055 MCOOUGALL,32
	0083 8URKE,63	0127 HUANG,49
	015I 8URKE,62	0I62 8URKE,62
	0168 SARAPH,62	0220 KAMENETSKII,62
	0234 MASSEY,56	0244 GELTMAN,60
	0276 AKERI8,61	0287 CHANORASEKHAR,46
	0296 GAILITIS,63	0301 OMALLEY,62
	035I 8ELL,63	0362 KATO,51
	0369 OCHKUR,57	0384 8OROWITZ,57
	0393 8OYET,54	0398 MASSEY,S0
	0403 ALTSHULER,53	040S MASSEY,51
	0408 OHMURA,58	0412 SEATON,57
	0416 8RANSOEN,S8	0429 8RANSOEN,56
	0447 SCHWARTZ,61	0448 KRALL,60
	0457 OEMKOV,S8	0463 OHMURA,59

TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZEO

H	0490 SCHWARTZ,61	0495 MOISEIWITSCH,63
	0498 TEMKIN,63	0S03 TEMKIN,63
	05I2 TEMKIN,63	0520 MALIK,59
	0537 OMIOVAR,59	0542 OAM8URG,62
	0543 STAVER,49	0552 HARA,61
	0553 MITTLEMAN,62	0560 VEKLENKO,63
	0561 OHMURA,60	0S67 WU,60
	0571 MCEACHRAN,61	0S86 PERCIVAL,57
	0706 TEMKIN,61	0712 8URKE,61
	0716 VEKLENKO,64	0722 LAWSON,61
	0744 MCEACHRAN,63	079S KAMENETSKII,61
	0812 RO8INSON,61	0855 MCEACHRAN,60
	0856 OAM8URG,63	0859 SMITH,60
	0864 MALIK,64	0879 MALIK,60
	0896 SMITH,60	0897 NUTT,64
	0899 JOHN,60	0903 PU,63
	0904 KYLE,64	0908 KYLE,64
	0935 OCHKUR,58	0967 GREEN8ERG,57
	0980 SCHWARTZ,62	0981 MURAEV,63
	1009 8URKE,63	1015 SMITH,61
	1022 SMITH,62	1025 KINGSTON,61
	1026 SARAPH,61	1030 TEMKIN,61
	1033 LIPPMANN,61	10SI TEMKIN,62
	1074 SOMERVILLE,63	1083 WAOOINGTON,64
	1084 ROSEN8ERG,60	1087 VAINSHTEIN,63
	1092 SLOAN,64	1414 LANE,64
	1487 GAILITIS,65	1496 HAHN,62
	1505 OAM8URG,65	1510 TIETZ,63
	15I1 TIETZ,63	1S24 TAYLOR,65
	1550 OAM8URG,63	1551 OAM8URG,63
	1552 OAM8URG,63	1553 OAM8URG,63
	1580 ARMSTEAO,65	1686 LEVIN,66
	1703 8ANERJEE,65	1708 JOHN,66
	1747 KANG,66	1770 MOISEIWITSCH,65
	1773 RUOGE,65	1847 8URKE,66
	1869 GAILITIS,65	1898 KYLE,64
H *	0429 8RANSOEN,S6	0433 SWAN,54
	0593 OMIOVAR,64	0722 LAWSON,6I
	0859 SMITH,60	0904 KYLE,64
	0935 OCHKUR,58	1074 SOMERVILLE,63
HE	0025 MORSE,33	0054 MASSEY,32
	0055 MCOOUGALL,32	0060 OMALLEY,63
	0106 ALLIS,31	0206 TIETZ,63
	0388 8YATT,56	0397 8AR8IERE,51
	0409 TIETZ,59	0449 KIVEL,59
	0459 MOISEIWITSCH,S3	0471 MOISEIWITSCH,6I
	0495 MOISEIWITSCH,63	0515 MUKHERJEE,62
	0562 TIETZ,S9	0565 HASHINO,63
	0657 ZWICKY,23	0760 MATORA,60
	0818 MARTYNENKO,63	0821 8AUER,64
	0822 RELL,64	0849 HASHINO,63
	0866 MARRIOTT,64	0976 LA8AHN,64
	0977 MURAEV,63	I024 MOISEIWITSCH,6I
	1114 MALIK,61	1256 WILLIAMSON,65
	1376 LA8AHN,65	1485 KESTNER,65
	15I6 GURCHUMELIYA,63	1590 WILLIAMSON,62
	1659 HUSAIN,66	1704 8ANERJEE,65
	1775 ZHIKHAREVA,65	I8I7 ORIENT,66
	1827 LA8AHN,66	1853 ZHIKHAREVA,66
	1894 SCHENTER,66	1905 PETERKOP,65
HE *	16S8 MARRIOTT,66	
HE 1	0422 SEATON,S7	0670 MCCARROLL,64
	0845 SLOAN,64	1080 8URKE,64
	1092 SLOAN,64	1847 8URKE,66
LI	08I0 OAM8URG,60	0821 8AUER,64
	0835 VELORE,59	0990 KARULE,64
	1097 VINKALNS,64	1469 KARULE,65
	1491 KARULE,65	1498 GARRETT,65
	15IS KARULE,64	1S42 KARULE,65
	1571 STONE,66	1864 KARULE,6S
	1865 KARULE,65	2002 PETERKOP,65
8E	0884 PILYANKEVICH,60	
8E 2	0884 PILYANKEVICH,60	
8	0884 PILYANKEVICH,60	
C	0884 PILYANKEVICH,60	I057 COOPER,62
	1102 MCDOWELL,64	1110 MYERSCOUGH,64
	1114 MALIK,61	1539 MYERSCOUGH,6S
C 2	0884 PILYANKEVICH,60	
C 4	0884 PILYANKEVICH,60	
N	0387 RO8INSON,57	0399 KLEIN,58
	0407 HAMMERLING,S7	0S97 8YATT,59
	1114 MALIK,6I	1650 LENANOER,66
O	0071 8ATES,47	0169 8REHM,59
	0208 YAMANOUCHI,47	0387 RO8INSON,57
	0399 KLEIN,S8	0400 TEMKIN,S7

TOTAL ELASTIC SCATTERING

	NORMALIZED	THEORETICAL
O	0407 HAMMERLING,57 0812 ROBINSON,61 0928 MITRA,40 1569 MYERSCOUGH,65 1832 SEATON,52	0597 BYATT,59 0821 BAUER,64 1057 COOPER,62 1650 LENANDER,66
F	0572 HOERNI,53	1057 COOPER,62
NE	0060 OMALLEY,63 0185 HOLTSMARK,28 0409 TIETZ,59 0471 MOISEIWITSCH,61 0821 BAUER,64 1059 BIBERMAN,64	0106 ALLIS,31 0267 BULLARD,30 0449 KIVEL,59 0495 MOISEIWITSCH,63 0944 FRENKIEL,62
NA	0106 ALLIS,31 0810 DAMBURG,60 0959 GARRETT,64 1052 SALMONA,61 1491 KARULE,65 1520 SALMONA,63 1542 KARULE,65 1864 KARULE,65 2002 PETERKOP,65	0499 SALMONA,59 0812 ROBINSON,61 1023 SALMONA,61 1469 KARULE,65 1498 GARRETT,65 1523 GARRETT,64 1587 SALMONA,65 1865 KARULE,65
NA 1	0422 SEATON,57	
CL	0267 BULLARD,30	1057 COOPER,62
AR	0060 OMALLEY,63 0106 ALLIS,31 0397 BARBIERE,51 0450 KIVEL,59 0495 MOISEIWITSCH,63 0818 MARTYNENKO,63 0875 KARLE,64 1579 BRACKETT,63	0099 HOLTSMARK,29 0185 HOLTSMARK,28 0449 KIVEL,59 0471 MOISEIWITSCH,61 0657 ZWICKY,23 0821 BAUER,64 1059 BIBERMAN,64 1650 LENANDER,66
K	0810 DAMBURG,60 1469 KARULE,65 1523 GARRETT,64 1864 KARULE,65 2002 PETERKOP,65	0959 GARRETT,64 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65
CA	0557 KAMENETSKII,60	1448 BELY,64
ZN	0106 ALLIS,31	
KR	0060 OMALLEY,63 0449 KIVEL,59 0495 MOISEIWITSCH,63 0821 BAUER,64	0104 HOLTSMARK,30 0471 MOISEIWITSCH,61 0818 MARTYNENKO,63
XE	0060 OMALLEY,63 0818 MARTYNENKO,63	0449 KIVEL,59
CS	0036 GARRETT,63 0810 DAMBURG,60 1469 KARULE,65 1523 GARRETT,64 1864 KARULE,65 1897 CROWN,65	0359 STONE,63 1343 CROWN,65 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65 2002 PETERKOP,65
HG	0557 KAMENETSKII,60 0592 GAJEWSKI,58	0562 TIETZ,59
TL	0106 ALLIS,31	
U	0572 HOERNI,53 0875 KARLE,64	0592 GAJEWSKI,58
H2	0034 FISK,36 0251 MASSEY,30 0421 CARTER,58 0434 CARSON,54 1816 OKSYUK,66	0054 MASSEY,32 0411 NAGAHARA,54 0428 MASSEY,56 1452 TAKAYANAGI,65
O2	0034 FISK,36 1816 OKSYUK,66	1666 GELTMAN,66
N2	0034 FISK,36 1452 TAKAYANAGI,65 1852 CHEN,66	0895 CHEN,64 1816 OKSYUK,66
H2O	0385 ALTSHULER,57	
N H3	0385 ALTSHULER,57	
C H4	0070 BUCKINGHAM,41	

DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZED

H	1031 GILBODY,61	
HE	0165 HUGHES,32 0637 LANGMUIR,28 1277 HUGHES,36	0330 WESTIN,49 0995 GOODRICH,37
NE	0187 BERMAN,49 0637 LANGMUIR,28	0330 WESTIN,49
AR	0187 BERMAN,49 0637 LANGMUIR,28	0330 WESTIN,49
HG	0021 TATE,32 1535 KESSLER,64	0637 LANGMUIR,28
H2	0637 LANGMUIR,28	
N2	0637 LANGMUIR,28	
C O	0374 LASSETTRE,53	
C H4	0190 EDMISTEN,49	
C2H6	0190 EDMISTEN,49	

RELATIVE

H	0230 HARNWELL,29 1593 KLEINPOPPEN,65	1512 MCGOWAN,65
HE	0003 DYMOND,27 0053 BULLARD,31 0158 HARNWELL,29 0253 DYMOND,29 1470 EHRHARDT,65	0011 MCMILLEN,30 0120 POULTNEY,34 0193 WERNER,31 1001 HUGHES,34 1529 EHRHARDT,65
NE	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29	0053 BULLARD,31 0137 NICOLL,33 1004 HUGHES,33
AR	0011 MCMILLEN,30 0022 WEBB,35 0052 ARNOT,31 0129 RAMSAUER,31	0020 HUGHES,32 0049 BULLARD,31 0059 MOHR,32 0837 PORTEUS,64
K	0030 MCMILLEN,34	0329 RUBIN,60
ZN	0064 CHILDS,33	
KR	0022 WEBB,35	0052 ARNOT,31
CO	0062 CHILDS,33	
XE	0052 ARNOT,31	
AU	1111 REICHERT,63	
HG	0050 ARNOT,31 0144 ARNOT,32 0191 ARNOT,29 0245 ARNOT,33 1002 JORDAN,34 1427 DEICHSEL,65 1475 ROSE,30	0137 NICOLL,33 0164 GAGGE,33 0219 JORDAN,33 0486 KESSLER,65 1425 DEICHSEL,61 1431 STEIDL,65 1596 DEICHSEL,66
H2	0011 MCMILLEN,30 0031 WEBB,35 0053 BULLARD,31 0129 RAMSAUER,31 0230 HARNWELL,29	0023 HUGHES,32 0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29 1303 GEIGER,64
N2	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29	0053 BULLARD,31 0138 MASSEY,33
C2H2	1286 CHILDS,34	
C O2	0059 MOHR,32	0129 RAMSAUER,31
C O	0052 ARNOT,31	
BR2	0065 ARNOT,34	
C H4	0052 ARNOT,31 0059 MOHR,32	0053 BULLARD,31 0137 NICOLL,33
I2	0065 ARNOT,34	
H2S	0059 MOHR,32	
P H3	0059 MOHR,32	
C CL4	0065 ARNOT,34	1287 HILL,36
C2H4	1286 CHILDS,34	
C2H6	1286 CHILDS,34	

DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL

RELATIVE

C F4	1287 HILL,36	

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

H	0025 MORSE,33	0028 CORINALDESI,63
	0083 BURKE,63	0127 HUANG,49
	0151 BURKE,62	0234 MASSEY,56
	0244 GELTMAN,60	0301 OMALLEY,62
	0416 BRANSDEN,58	0490 SCHWARTZ,61
	0511 BOROWITZ,54	0544 MOISEIWITSCH,59
	0567 WU,60	0855 MCEACHRAN,60
	0879 MALIK,60	0899 JOHN,60
	0903 PU,63	0918 BURKE,62
	0935 OCHKUR,58	0967 GREENBERG,57
	1022 SMITH,62	1025 KINGSTON,61
	1030 TEMKIN,61	1130 KLEIN,55
	1461 SCOTT,65	1524 TAYLOR,65
H +	0935 OCHKUR,58	
HE	0025 MORSE,33	0136 MOTT,33
	0221 FEENBERG,32	0258 KOLOS,61
	0383 SACHL,58	0462 HUZINAGA,60
	0544 MOISEIWITSCH,59	0590 KOLOS,60
	0976 LABAHN,64	1048 MUKHERJEE,61
	1056 INOKUTI,61	1283 KAR,37
	1308 GHOSH,35	1407 KHARE,65
	1408 KHARE,65	1493 KHARE,64
	1817 ORIENT,66	
HE +	0514 BHATTACHARYYA,61	
LI	1865 KARULE,65	
BE	0884 PILYANKEVICH,60	
BE 2	0884 PILYANKEVICH,60	
B	0884 PILYANKEVICH,60	
C	0884 PILYANKEVICH,60	
C 2	0884 PILYANKEVICH,60	
C 4	0884 PILYANKEVICH,60	
N	1579 BRACKETT,63	
O	0409 TIETZ,59	1579 BRACKETT,63
F	0572 HOERNI,53	1287 HILL,36
NA	1865 KARULE,65	
NA 1	0719 SEATON,58	
S	1176 TIETZ,60	
CL	0745 TIETZ,60	
AR	0409 TIETZ,59	0821 BAUER,64
	1579 BRACKETT,63	
K	0821 BAUER,64	1469 KARULE,65
	1864 KARULE,65	1865 KARULE,65
BR	1152 ARNOT,34	
KR	0156 ARNOT,34	1199 MUKHERJEE,61
CS	1865 KARULE,65	
AU	1646 SCHONFELDER,66	
HG	0109 BUNYAN,63	1424 BUNYAN,65
	1646 SCHONFELDER,66	
BI	1646 SCHONFELDER,66	
U	0572 HOERNI,53	
H2	0251 MASSEY,30	1311 ROSCOE,38
	1408 KHARE,65	
BR2	1152 ARNOT,34	1191 SHAW,40

RELATIVE

H	0068 MASSEY,34	

DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

RELATIVE

HE	0051 MASSEY,31	0054 MASSEY,32
	0068 MASSEY,34	0302 FANO,61
	0639 MORSE,32	
HE 1	0440 BRANSDEN,53	
O	0048 MOTT,30	
F	1287 HILL,36	
CL	1287 HILL,36	
AR	0655 HENNEBERG,33	
KR	0113 VOSS,33	0655 HENNEBERG,33
	1294 HUGHES,35	
HG	0653 HENNEBERG,32	0655 HENNEBERG,33
H2	0054 MASSEY,32	0194 MASSEY,32
	0863 GRYZINSKI,64	
N2	0138 MASSEY,33	0194 MASSEY,32
C2H2	0726 HUGHES,33	
C H4	0070 BUCKINGHAM,41	0726 HUGHES,33
C CL4	1287 HILL,36	
C2H4	0726 HUGHES,33	
C F4	1287 HILL,36	

ELECTRONIC EXCITATION EXPERIMENTAL

NORMALIZED

H	0321 FITE,58	0326 FITE,59
	0327 LICHTEN,59	0332 STEBBINGS,60
	0936 SCHULTZ,60	1486 SMITH,65
HE	0056 LEES,32	0123 DORRESTEIN,42
	0124 DORRESTEIN,42	0125 WOUDENBERG,41
	0192 FRANCIS,47	0318 SCHULZ,57
	0336 CORRIGAN,58	0338 STEWART,59
	0373 LASSETTRE,53	0379 SILVERMAN,57
	0464 FRISH,58	0477 YAKHONTOVA,60
	0485 LIN,62	0554 HUGHES,63
	0600 PHELPS,58	0637 LANGMUIR,28
	0742 ST JOHN,60	0787 HUGHES,63
	0799 SILVERMAN,64	0800 LASSETTRE,64
	0871 FLEMING,63	0886 GABRIEL,60
	1049 ST JOHN,64	1088 FLEMING,64
	1265 JONES,48	1323 YAKHONTOVA,59
	1455 MILLER,64	1528 HOLT,65
	1583 ZAPESOCHNYI,65	1677 HOLT,66
	1760 LASHMORE-DAVIES,65	1892 HOLT,65
	1895 ZAPESOCHNYI,65	
HE +	0759 ROBBEN,63	
HE 1	1803 DANCE,66	
LI	0773 FELDMAN,63	1072 HUGHES,64
NE	0122 MILATZ,40	0123 DORRESTEIN,42
	0124 DORRESTEIN,42	0187 BERMAN,49
	0205 HADEISHI,63	0288 HERRMANN,36
	0637 LANGMUIR,28	1094 TIEN,64
	1339 HADEISHI,65	1531 FRISH,63
	1584 REVALD,65	
NA	0141 LOVERIDGE,31	0290 CHRISTOPH,35
	0414 VOLKOVA,61	1517 ZAPESOCHNYI,65
	1683 ZAPESOCHNYI,65	
AR	0187 BERMAN,49	0288 HERRMANN,36
	0637 LANGMUIR,28	0755 VOLKOVA,59
	1823 ZAPESOCHNYI,66	
K	0141 LOVERIDGE,31	0275 FABRIKANT,39
	0344 VOLKOVA,59	0505 VOLKOVA,62
	0749 VOLKOVA,59	0773 FELDMAN,63
	1517 ZAPESOCHNYI,65	1533 VOLKOVA,63
	1680 ZAPESOCHNYI,65	
FE	0929 BELOUSOVA,61	
KR	0474 VOLKOVA,60	1823 ZAPESOCHNYI,66
PB	0773 FELDMAN,63	1517 ZAPESOCHNYI,65
	1801 ZAPESOCHNYI,66	

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NORMALIZED

      CD       1758 PENKIN,66

      XE       0474 VOLKOVA,60                  1823 ZAPESOCHNYI,66

      XE     1 0474 VOLKOVA,60

      CS       0279 MOHLER,32                   1467 NOLAN,65
               1517 ZAPESOCHNYI,65              1801 ZAPESOCHNYI,66
               1910 KORCHEVOI,66                1972 ZAPESOCHNYI,66

      BA     1 0929 BELOUSOVA,61

      HG       0021 TATE,32                     0069 ARNOT,35
               0176 JONGERIUS,61                0303 RIEDE,54
               0513 JONGERIUS,60                0623 CROZIER,28
               0637 LANGMUIR,28

      TL       0121 STROHMEIER,37

      H2       0181 FROST,62                    0260 ENGELHARDT,63
               0321 FITE,58                     0327 LICHTEN,59
               0354 CORRIGAN,58                 0637 LANGMUIR,28
               0652 LUNT,62                     0804 LASSETTRE,64
               0921 LEGLER,63                   1265 JONES,48

      O2       0376 LASSETTRE,54                0377 SILVERMAN,57
               0381 LASSETTRE,57                0652 LUNT,62
               0794 LASSETTRE,64                0798 LASSETTRE,64
               1310 SCHULZ,62

      N2       0218 ENGELHARDT,64               0375 LASSETTRE,53
               0378 SILVERMAN,57                0381 LASSETTRE,57
               0637 LANGMUIR,28                 0652 LUNT,62
               0813 LASSETTRE,64                0857 SILVERMAN,65
               0921 LEGLER,63                   1296 WILLIAMS,35

     H2O       0382 LASSETTRE,58

    C O2       0380 SHILOFF,57                  1205 MEYER,65

     C O       0372 LASSETTRE,53                0374 LASSETTRE,53
               0794 LASSETTRE,64                0803 LASSETTRE,64
               0968 SKERBELE,60

    C H4       0190 EDMISTEN,49                 0192 FRANCIS,47

    C2H6       0190 EDMISTEN,49

RELATIVE

       H       0110 ORNSTEIN,33                 0269 ORNSTEIN,35
               0532 KLEINPOPPEN,62              0609 GAILITIS,63
               0629 HUGHES,23                   0922 CHAMBERLAIN,64

      HE       0003 DYMOND,27                   0011 MCMILLEN,30
               0027 HUGHES,33                   0058 MOHR,32
               0063 NICOLL,33                   0067 WHIDDINGTON,34
               0100 ORNSTEIN,30                 0108 THIEME,32
               0119 MAIER-LEIBNITZ,35           0120 POULTNEY,34
               0158 HARNWELL,29                 0173 VAN VOORHIS,34
               0178 MINKOWSKI,23                0223 SMIT,35
               0226 MICHELS,30                  0227 LAHB,57
               0235 GLOCKLER,29                 0253 DYMOND,29
               0263 HANLE,29                    0293 PRIESTLY,35
               0304 HANLE,52                    0319 SCHULZ,58
               0328 SCHULZ,59                   0361 SMIT,58
               0492 MCFARLAND,63                0510 MCFARLAND,62
               0513 JONGERIUS,60                0516 SMIT,63
               0519 HEDDLE,63                   0521 MCFARLAND,62
               0551 LASSETTRE,64                0564 ST JOHN,62
               0612 LASSETTRE,65                0620 COLES,37
               0628 HUGHES,23                   0651 LEES,29
               0663 HERTZ,25                    0668 WOMER,34
               0692 KUYATT,63                   0747 MCFARLAND,64
               0753 DOLGOV,59                   0880 MAURER,34
               0912 ST JOHN,61                  0968 SKERBELE,60
               1027 HIGGINSON,61                1073 MCFARLAND,64
               1076 ZAPESOCHNYI,63              1090 SCHULZ,64
               1148 ELENBAAS,30                 1304 CHAMBERLAIN,65
               1411 RAFF,62                     1417 CHAMBERLAIN,65
               1513 HEDDLE,65                   1521 ZAPESOCHNYI,65
               1527 CHAMBERLAIN,65              1572 CERMAK,66
               1588 EHRHARDT,65                 1753 BOERSCH,65
               1776 KUPRIYANOV,66               1781 CERMAK,66
               1839 MEHLHORN,66                 1982 DOERING,66

      LI       1586 HAFNER,65

      NE       0059 MOHR,32                     0119 MAIER-LEIBNITZ,35
               0137 NICOLL,33                   0152 HANLE,30
               0158 HARNWELL,29                 0178 MINKOWSKI,23
               0268 MILATZ,35                   0663 HERTZ,25
               0692 KUYATT,63                   1076 ZAPESOCHNYI,63
               1153 ENDE,29                     1301 OLMSTED,65
               1648 ZAPESOCHNYI,61              1776 KUPRIYANOV,66

      NE     1 0067 WHIDDINGTON,34
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RELATIVE

      NA       0015 MICHELS,31                  0111 HAFT,33
               0506 ZAPESOCHNYI,62              1078 ZAPESOCHNYI,63
               1648 ZAPESOCHNYI,61

      AR       0020 HUGHES,32                   0058 MOHR,32
               0063 NICOLL,33                   0067 WHIDDINGTON,34
               0115 FISCHER,33                  0119 MAIER-LEIBNITZ,35
               0178 MINKOWSKI,23                0304 HANLE,52
               0344 VOLKOVA,59                  0692 KUYATT,63
               0837 PORTEUS,64                  0968 SKERBELE,60
               1301 OLMSTED,65                  1411 RAFF,62
               1527 CHAMBERLAIN,65              1776 KUPRIYANOV,66

       K       0344 VOLKOVA,59

      ZN       0105 LARCHE,31                   1077 ZAPESOCHNYI,63
               1079 ZAPESOCHNYI,63

      KR       0178 MINKOWSKI,23                0607 DEVYATOV,55
               0692 KUYATT,63                   1301 OLMSTED,65
               1325 GUK,57                      1776 KUPRIYANOV,66

      KR     1 1325 GUK,57

      RB       1078 ZAPESOCHNYI,63

      AG       0289 FUHRMANN,39

      CO       0105 LARCHE,31                   0180 MINKOWSKI,23
               0504 ZAPESOCHNYI,62              1079 ZAPESOCHNYI,63
               1648 ZAPESOCHNYI,61

      XE       0178 MINKOWSKI,23                0304 HANLE,52
               0308 KUYATT,64                   0692 KUYATT,63
               1325 GUK,57                      1776 KUPRIYANOV,66

      XE     1 1325 GUK,57

      CS       0476 BOGDANOVA,60                1040 ZAPESOCHNYI,64
               1078 ZAPESOCHNYI,63

      HG       0040 NOTTINGHAM,39               0058 MOHR,32
               0078 ZAPESOCHNYI,61              0092 HANLE,30
               0096 VETTERLEIN,39               0108 THIEME,32
               0112 ORNSTEIN,33                 0114 SEILER,33
               0115 FISCHER,33                  0137 NICOLL,33
               0142 FABRIKANT,37                0164 GAGGE,33
               0173 VAN VOORHIS,34              0176 JONGERIUS,61
               0179 HANLE,29                    0180 MINKOWSKI,23
               0191 ARNOT,29                    0222 BOGDANOVA,63
               0229 OSTENSEN,29                 0231 BRATTAIN,29
               0262 SCHAFFERNICHT,30            0315 JONGERIUS,56
               0319 SCHULZ,58                   0476 BOGDANOVA,60
               0513 JONGERIUS,60                0546 SMIT,56
               0634 LEE,39                      0635 WHITE,26
               0656 BRICOUT,28                  0665 WHITNEY,29
               0808 FRISH,54                    0816 SIEBERTZ,31
               0882 ZAPESOCHNYI,62              0965 BAKIS,59
               1077 ZAPESOCHNYI,63              1079 ZAPESOCHNYI,63
               1153 ENDE,29                     1233 FRISH,56
               1275 VALASEK,27                  1290 ROZGACHEV,58
               1324 BOGDANOVA,59                1475 ROSE,30
               1521 ZAPESOCHNYI,65              1534 BOGDANOVA,63
               1570 SMIT,65                     1575 FYODOROV,65

      TL       0289 FUHRMANN,39

      PB       0289 FUHRMANN,39

      H2       0059 MOHR,32                     0063 NICOLL,33
               0158 HARNWELL,29                 0173 VAN VOORHIS,34
               0232 BRASEFIELD,29               0270 KRUITHOF,35
               0319 SCHULZ,58                   0987 COOLIDGE,44
               1301 OLMSTED,65                  1303 GEIGER,64
               1411 RAFF,62                     1585 BOERSCH,65
               1692 HEIDEMAN,66

      N2       0059 MOHR,32                     0108 THIEME,32
               0137 NICOLL,33                   0158 HARNWELL,29
               0328 SCHULZ,59                   0334 STEWART,58
               0475 ZAPESOCHNYI,60              0612 LASSETTRE,65
               0632 LANGSTROTH,34               0752 KISHKO,59
               0953 STEWART,55                  0968 SKERBELE,60
               0989 THOMPSON,34                 1157 RUDBERG,30
               1298 LANGSTROTH,35               1301 OLMSTED,65
               1312 LANGSTROTH,35               1406 WINTERS,65
               1480 LASSETTRE,65                1481 SKERBELE,65
               1597 GEIGER,65                   1648 ZAPESOCHNYI,61
               1679 MEYER,66                    1693 HEIDEMAN,66

      N2     1 0039 BUNDY,37                    0343 ZAPESOCHNYI,59
               0757 KISHKO,60

     H2O       0558 SCHULZ,60                   0968 SKERBELE,60
               1411 RAFF,62                     1419 SKERBELE,65
               1481 SKERBELE,65                 1824 SKERBELE,66

    N H3       0968 SKERBELE,60                 1481 SKERBELE,65
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ELECTRONIC EXCITATION EXRERIMENTAL

RELATIVE

N O		0612 LASSETTRE,65	1841 KOVAL.66
C2H2		1374 BOWMAN,65	1812 GEIGER,65
C 02		0059 MOHR,32	0612 LASSETTRE,65
		1047 KISHKO,63	1A01 LASSETTRE,65
		1841 KOVAL,66	
C 0		0328 SCHULZ,59	0475 ZAPESOCHNYI,60
		1301 OLMSTEO,65	1418 MEYER,65
		1481 SKERBELE,65	1743 SILVERMAN,64
		1841 KOVAL,66	1887 SKERBELE.66
C 0	1	0039 BUNOY,37	
BR2		0983 SWICK,61	
C H4		0137 NICOLL,33	1374 BOWMAN,65
		1588 EHRHAROT,65	
02		0987 COOLIOGE,44	
C2H4		1374 BOWMAN,65	1411 RAFF,62
C2H6		1374 BOWMAN.65	
5 F6		1856 SIMPSON,66	

ELECTRONIC EXCITATION THEORETICAL

NORMALIZEO

H		0032 GORSHANOVA,62	0044 BURKE.62
		0051 MASSEY,31	0083 BURKE,63
		0091 OAMBURG,62	0097 OAMBURG,62
		0128 RETERKOR.62	0154 OAMBURG.62
		0155 SEATON,62	0183 ELSASSER,27
		023A MASSEY.56	0277 GOLOSTEIN,33
		0278 OAMBURG,62	0296 GAILITIS.63
		0350 KINGSTON,60	0351 BELL,63
		0389 BOROWITZ.56	0391 HART.56
		0418 KHASHABA.58	0420 MARRIOTT.58
		0423 BATES,57	0A24 MCCARROLL.57
		0425 BRANSOEN.57	0429 BRANSOEN,56
		0432 OPIK,55	0435 ROTHENSTEIN,5A
		0438 MASSEY,53	0446 MCCOYO,60
		0458 ERSKINE,52	0507 OAMBURG.63
		0534 SOMERVILLE.62	0540 MILFORD.60
		0542 OAMBURG,62	0545 ROBINSON,63
		0549 KINGSTON.60	0563 LYNN,59
		0567 WU,60	0580 HUCK.57
		0585 SEATON,62	0593 OMIDVAR.64
		0648 DAMBURG.63	0671 STABLER.64
		0712 BURKE,61	0721 SEATON,61
		0722 LAWSON,61	0809 HELLUNO.60
		0826 RRESNYAKOV,64	0828 POMILLA.64
		0829 PETERKOR,59	0859 SMITH,60
		0866 MARRIOTT,64	087A TAYLOR.64
		0892 BURGESS.63	0896 SMITH,60
		0904 KYLE,64	0908 KYLE.64
		0913 AKERIB,61	0914 MOISEIWITSCH.61
		0919 MILFORD,60	0935 OCHKUR,58
		0996 AKERIB,60	1009 BURKE,63
		1014 GRYZINSKI,65	1037 HUMMER,61
		1050 SCANLON,61	1061 VAINSHTEIN,64
		1074 SOMERVILLE,63	1109 CUNNINGHAM,64
		1115 DCHKUR,63	1130 KLEIN,55
		1135 PETERKOP,60	1246 STAUFFER.65
		1257 MOISEIWITSCH,65	1409 BELL.65
		1416 TAIT,63	1A57 VRIENS.65
		1461 SCOTT,65	1466 OMIOVAR.65
		1468 VRIENS,65	147A VAINSHTEIN,64
		1479 COLEMAN.65	1532 CROTHERS,65
		1546 VAINSHTEIN,61	1550 DAMBURG.63
		1551 OAMBURG,63	1552 OAMBURG,63
		1553 DAMBURG,63	1557 BAUER,65
		1560 EISSNER.6A	1594 VRIENS.65
		1657 KINGSTON,66	1697 COLEMAN,66
		1718 ORMONDE,64	1747 KANG,66
		1773 RUOGE,65	1793 BIELSKI.65
		1813 VAINSHTEIN,64	1847 BURKE,66
		1851 KINGSTON,66	1859 ORMONOE,66
		1868 VELDRE,65	1877 MCCARROLL,65
		1886 COLEMAN.65	1898 KYLE.64
		1985 FAISAL,65	
H	*	0103 MCCOYO,63	0413 MCCREA.60
		0419 BOYO.58	0431 SEATON.55
		0445 FISHER,60	0446 MCCOYO.60
		0593 OMIOVAR,64	0826 PRESNYAKOV,6A
		0859 SMITH.60	0954 SARARH.6A
		1074 SOMERVILLE,63	1103 YAVORSKY,47
		1466 OMIOVAR,65	1468 VRIENS.65

ELECTRONIC EXCITATION THEORETICAL

NORMAI IZEO

H	*	1522 ROMILLA.63	1657 KINGSTON,66
		1674 VELORE,65	1718 ORMONOE.64
		1851 KINGSTON.66	1868 VELDRE,65
HE		0051 MASSEY.31	0061 MASSEY.33
		0139 MASSEY,35	0155 SEATON,62
		0234 MASSEY.56	0281 YAVORSKY.44
		0311 BECKER,64	0349 MASSEY,60
		0367 MOISEIWITSCH.57	0391 HART,56
		0395 ALTSHULER.53	0396 ALTSHULER,52
		0432 ORIK.55	0435 ROTHENSTEIN,54
		04A1 MASSEY.52	0452 GRYZINSKI,59
		0A60 MASSEY,54	0462 HUZINAGA.60
		0555 BECKER,63	0616 MASSEY,31
		0676 KAR,40	0718 OCHKUR,64
		0740 PERCIVAL,58	0754 VAINSHTEIN,59
		0760 MATORA.60	0765 ITOH.60
		0801 LASSETTRE.64	0863 GRYZINSKI,64
		0892 BURGESS,63	1014 GRYZINSKI,65
		1091 SILVERMAN,58	1115 OCHKUR,63
		1212 BECKER,64	1246 STAUFFER,65
		1265 JONES.48	1546 VAINSHTEIN.61
		1557 BAUER,65	1558 BAUER,65
		1567 LASSETTRE,65	1590 WILLIAMSON.62
		1644 JOACHAIN.65	1645 JOACHAIN,65
		1663 SILVERMAN,66	1682 OCHKUR,65
		1695 FOX,66	1710 BELL,66
		1767 FOX,65	1793 BIELSKI.65
		1846 BURKE.66	
HE	*	1103 YAVORSKY,47	1658 MARRIOTT,66
		1804 OCHKUR,66	
HE	1	0417 BURGESS.61	0436 BRANSDEN,53
		0669 BURKE,64	0670 MCCARROLL,64
		1080 BURKE.64	1340 BURKE,64
		1847 BURKE.66	
LI		0830 VELORE,59	0836 VELDRE,59
		0990 KARULE.6A	1072 HUGHES,64
		1146 WU.44	1190 WU,40
		1469 KARULE.65	1515 KARULE,64
		1813 VAINSHTEIN.6A	
LI	1	1688 SURAL,66	
BE		0884 RILYANKEVICH,60	
RE	1	0775 BELY.63	1305 BELY,6A
		1850 BELY,66	
BE	2	0884 PILYANKEVICH,60	
B		0884 RILYANKEVICH,60	
C		0884 RILYANKEVICH,60	
C	1	0714 SEATON.58	0909 SEATON,55
C	2	0884 PILYANKEVICH,60	
C	3	0775 BELY,63	
C	4	0884 PILYANKEVICH,60	1546 VAINSHTEIN,61
C	5	1A74 VAINSHTEIN,64	1546 VAINSHTEIN,61
N	1	0A04 SEATON,53	048A SEATON,55
		0714 SEATON,58	1696 BELY,66
N	4	1536 TAYLOR.65	1653 BURKE,66
		1850 BELY,66	
O		0248 YAMANOUCHI,40	0366 YAMANOUCHI,50
		0A27 PERCIVAL,57	0484 SEATON,55
		1832 SEATON,52	
O	1	0404 SEATON,53	0A84 SEATON,55
		0843 SEATON,57	1216 ALLER,A8
O	2	0265 HEBB,40	0404 SEATON,53
		0484 SEATON.55	071A SEATON,58
		1696 BELY,66	
O	5	0775 BELY,63	0792 VARSAVSKY,61
		081A VARSAVSKY,63	0970 BELY.62
		1017 VARSAVSKY,62	
F	1	040A SEATON.53	048A SEATON,55
F	2	0A0A SEATON.53	0A84 SEATON,55
F	3	040A SEATON.53	0A8A SEATON,55
F	5	0792 VARSAVSKY,61	
F	6	0792 VARSAVSKY.61	

		ELECTRONIC EXCITATION	THEORETICAL
NORMALIZED			
NE		1576 VELDRE,65 1866 VELDRE,65	1681 BOIKOVA,65 1867 VELDRE,65
NE	2	0404 SEATON,53	0484 SEATON,55
NE	3	0404 SEATON,53	0484 SEATON,55
NE	4	0404 SEATON,53	0484 SEATON,55
NE	5	0792 VARSAVSKY,61	
NE	6	0792 VARSAVSKY,61	1850 BELY,66
NE	7	0792 VARSAVSKY,61	
NA		0155 SEATON,62 0452 GRYZINSKI,59 1014 GRYZINSKI,65 1072 HUGHES,64 1251 BARNES,65 1414 LANE,64 1474 VAINSHTEIN,64 1546 VAINSHTEIN,61 1793 BIELSKI,65	0431 SEATON,55 0497 SOMERVILLE,61 1023 SALMONA,61 1115 OCHKUR,63 1319 VELDRE,56 1469 KARULE,65 1520 SALMONA,63 1587 SALMONA,65 1813 VAINSHTEIN,64
NA	•	0568 LANE,64	
NA	3	0404 SEATON,53	0484 SEATON,55
NA	4	0404 SEATON,53 0792 VARSAVSKY,61	0484 SEATON,55
NA	5	0792 VARSAVSKY,61	
NA	6	0792 VARSAVSKY,61	
NA	7	0792 VARSAVSKY,61	
NA	8	0792 VARSAVSKY,61	
MG	1	0775 BELY,63 1122 VAN REGEMORTER,60	1053 VAN REGEMORTER,61
MG	4	0404 SEATON,53 0792 VARSAVSKY,61	0484 SEATON,55
MG	5	0792 VARSAVSKY,61	
MG	6	0792 VARSAVSKY,61	
MG	7	0792 VARSAVSKY,61	
MG	8	0792 VARSAVSKY,61	
MG	9	0775 BELY,63	0792 VARSAVSKY,61
AL	4	0792 VARSAVSKY,61	
AL	5	0792 VARSAVSKY,61	
AL	6	0792 VARSAVSKY,61	
AL	7	0792 VARSAVSKY,61	
AL	8	0792 VARSAVSKY,61	
AL	9	0792 VARSAVSKY,61	
AL	10	0792 VARSAVSKY,61	
SI	1	0714 SEATON,58	0909 SEATON,55
SI	3	0775 BELY,63	
SI	5	0792 VARSAVSKY,61	
SI	6	0792 VARSAVSKY,61	
SI	7	0792 VARSAVSKY,61	
SI	8	0792 VARSAVSKY,61	
SI	9	0792 VARSAVSKY,61	
SI	10	0792 VARSAVSKY,61	
SI	11	0792 VARSAVSKY,61	
P	6	0792 VARSAVSKY,61	
P	7	0792 VARSAVSKY,61	
P	8	0792 VARSAVSKY,61	
P	9	0792 VARSAVSKY,61	
P	10	0792 VARSAVSKY,61	

		ELECTRONIC EXCITATION	THEORETICAL
NORMALIZED			
P	11	0792 VARSAVSKY,61	
P	12	0792 VARSAVSKY,61	
S	1	0404 SEATON,53 0484 SEATON,55	0442 CZYZAK,64
S	2	0442 CZYZAK,64	1696 BELY,66
S	8	0792 VARSAVSKY,61	
S	9	0792 VARSAVSKY,61	
S	10	0792 VARSAVSKY,61	
S	11	0792 VARSAVSKY,61	
CL	3	0442 CZYZAK,64	1696 BELY,66
CL	10	0792 VARSAVSKY,61	
CL	11	0792 VARSAVSKY,61	
CL	12	0792 VARSAVSKY,61	
AR		1867 VELORE,65	
AR	4	0442 CZYZAK,64	1696 BELY,66
AR	7	0792 VARSAVSKY,61	
AR	11	0792 VARSAVSKY,61	
AR	12	0792 VARSAVSKY,61	
AR	13	0792 VARSAVSKY,61	
K		1072 HUGHES,64 1813 VAINSHTEIN,64	1469 KARULE,65
K	7	0792 VARSAVSKY,61	
K	8	0792 VARSAVSKY,61	
K	12	0792 VARSAVSKY,61	
K	13	0792 VARSAVSKY,61	
CA		1448 BELY,64	
CA	1	0720 VAN REGEMORTER,60 1122 VAN REGEMORTER,60	1054 VAN REGEMORTER,61 1876 PETRINI,65
CA	7	0792 VARSAVSKY,61	
CA	8	0792 VARSAVSKY,61	
CA	9	0792 VARSAVSKY,61	
CA	14	0792 VARSAVSKY,61	
SC	6	0792 VARSAVSKY,61	
SC	7	0792 VARSAVSKY,61	
SC	8	0792 VARSAVSKY,61	
SC	9	0792 VARSAVSKY,61	
SC	10	0792 VARSAVSKY,61	
TI	6	0792 VARSAVSKY,61	
TI	7	0792 VARSAVSKY,61	
TI	8	0792 VARSAVSKY,61	
TI	9	0792 VARSAVSKY,61	
TI	10	0792 VARSAVSKY,61	
TI	11	0792 VARSAVSKY,61	
V	6	0792 VARSAVSKY,61	
V	7	0792 VARSAVSKY,61	
V	8	0792 VARSAVSKY,61	
V	9	0792 VARSAVSKY,61	
V	10	0792 VARSAVSKY,61	
V	11	0792 VARSAVSKY,61	
V	12	0792 VARSAVSKY,61	
CR	7	0792 VARSAVSKY,61	

ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

CR	8	0792 VARSAVSKY,61	
CR	9	0792 VARSAVSKY,61	
CR	10	0792 VARSAVSKY,61	
CR	11	0792 VARSAVSKY,61	
CR	12	0792 VARSAVSKY,61	
CR	13	0792 VARSAVSKY,61	
MN	8	0792 VARSAVSKY,61	
MN	9	0792 VARSAVSKY,61	
MN	10	0792 VARSAVSKY,61	
MN	11	0792 VARSAVSKY,61	
MN	12	0792 VARSAVSKY,61	
MN	13	0792 VARSAVSKY,61	
MN	14	0792 VARSAVSKY,61	
FE	1	0909 SEATON,55	
FE	7	1943 CZYZAK,66	
FE	9	0792 VARSAVSKY,61	
FE	10	0792 VARSAVSKY,61	
FE	11	0792 VARSAVSKY,61	
FE	12	0792 VARSAVSKY,61	
FE	13	0437 BLAHA,62 0547 BELY,62 0923 WOOLLEY,48	0455 HILL,51 0792 VARSAVSKY,61
FE	14	0792 VARSAVSKY,61	
FE	15	0775 BELY,63 1932 KRUEGER,65	0792 VARSAVSKY,61
CO	10	0792 VARSAVSKY,61	
CO	11	0792 VARSAVSKY,61	
CO	12	0792 VARSAVSKY,61	
CO	13	0792 VARSAVSKY,61	
CO	14	0792 VARSAVSKY,61	
CO	15	0792 VARSAVSKY,61	
CO	16	0792 VARSAVSKY,61	
NI	11	0792 VARSAVSKY,61	
NI	12	0792 VARSAVSKY,61	
NI	13	0792 VARSAVSKY,61	
NI	14	0792 VARSAVSKY,61	
NI	15	0792 VARSAVSKY,61	
NI	16	0792 VARSAVSKY,61	
NI	17	0792 VARSAVSKY,61	
RB		1072 HUGHES,64	1813 VAINSHTEIN,64
CS		1063 HANSEN,64 1456 WITTING,65 1813 VAINSHTEIN,64	1072 HUGHES,64 1469 KARULE,65
CS *		1272 SHELDON,65	
BA	1	1876 PETRINI,65	
HG		0202 YAVORSKY,46 0452 GRYZINSKI,59	0272 YAVORSKY,45 1414 LANE,64
HG *		1103 YAVORSKY,47	
H2		0045 ROSCOE,41	0194 MASSEY,32
H2	1	1055 PEEK,64	1342 CALLAWAY,65
O2		1557 BAUER,65	1558 BAUER,65
N2		1557 BAUER,65	1558 BAUER,65

ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

N2	1	1557 BAUER,65	1558 BAUER,65
H2O		0294 NIIRA,49	
N O		1557 BAUER,65	1558 BAUER,65

RELATIVE

HE		0284 MASSEY,33 0639 MORSE,32	0386 BARANGER,57 1297 JONES,36
N		0484 SEATON,55	
O	1	0876 ALLER,50	
O	2	0876 ALLER,50	
NE		0068 MASSEY,34	
AR		0068 MASSEY,34	
CA	1	0963 JEFFERIES,54	
HG		0019 PENNEY,32	
H2		0987 COOLIDGE,44	
O2		0987 COOLIDGE,44	

ELECTRON DETACHMENT EXPERIMENTAL

NORMALIZED

H -	1880 TISONE,66	

ELECTRON DETACHMENT THEORETICAL

NORMALIZED

H -	0415 GELTMAN,60 0576 RUDGE,64 1483 TIETZ,63	0470 MCDOWELL,63 1125 GELTMAN,60 1764 SMIRNOV,66
O -	0365 WATANABE,50	
CL -	1300 MASSEY,36	1463 ROBINSON,65

DE-EXCITATION EXPERIMENTAL

NORMALIZED

HE *	0569 PHELPS,55	
CS *	0279 MOHLER,32	

RELATIVE

HG *	0102 LATYSCHEFF,30	

DE-EXCITATION THEORETICAL

NORMALIZED

HE *	0426 MARRIOTT,57	1658 MARRIOTT,66
O *	0366 YAMANOUCHI,50	
CS *	1456 WITTING,65	
HG *	0202 YAVORSKY,46	

NORMALIZED	IONIZATION	EXPERIMENTAL
H	0320 FITE,58	0491 BOYD,60
	0978 ROTHE,62	1106 BOKSENBERG,61
HE	0002 COMPTON,25	0029 LISKA,34
	0225 SMITH,30	0335 BOYD,58
	0340 LAMPE,57	0373 LASSETTRE,53
	0626 ASUNDI,63	0674 COMPTON,18
	0743 ASUNDI,63	0787 HUGHES,63
	0799 SILVERMAN,64	0942 ST JOHN,64
	0974 HARRISON,56	0995 GOODRICH,37
	1105 ENGLANDER-GOLDEN,64	1281 SCHRAM,65
	1329 FOX,61	1459 RAPP,65
	1706 SCHRAM,66	1748 SCHRAM,66
	1858 ADAMCZYK,66	1863 SCHRAM,66
	1895 ZAPESOCHNYI,65	
HE *	0280 FITE,63	
HE 1	0907 DOLDER,61	
LI	0773 FELDMAN,63	1104 MCFARLAND,65
LI 1	1421 LINEBERGER,65	
N	0831 PETERSON,64	1268 SMITH,62
N 1	0261 HARRISON,63	
O	0323 FITE,59	0602 JAHODA,62
	0978 ROTHE,62	1106 BOKSENBERG,61
NE	0002 COMPTON,25	0012 BLEAKNEY,30
	0225 SMITH,30	0340 LAMPE,57
	0626 ASUNDI,63	0743 ASUNDI,63
	0831 PETERSON,64	1105 ENGLANDER-GOLDEN,64
	1281 SCHRAM,65	1329 FOX,61
	1459 RAPP,65	1706 SCHRAM,66
	1748 SCHRAM,66	1858 ADAMCZYK,66
	1863 SCHRAM,66	
NE 1	0264 DOLDER,63	0723 LATYPOV,64
NA	0088 FUNK,30	1104 MCFARLAND,65
	1217 BRINK,64	1683 ZAPESOCHNYI,65
NA 1	1568 HOOPER,66	
AR	0002 COMPTON,25	0012 BLEAKNEY,30
	0225 SMITH,30	0340 LAMPE,57
	0357 TOZER,60	0626 ASUNDI,63
	0743 ASUNDI,63	0831 PETERSON,64
	0946 GLICK,64	1105 ENGLANDER-GOLDEN,64
	1281 SCHRAM,65	1329 FOX,61
	1459 RAPP,65	1705 SCHRAM,66
	1748 SCHRAM,66	1863 SCHRAM,66
AR 1	0723 LATYPOV,64	
AR 2	0723 LATYPOV,64	
K	0088 FUNK,30	0773 FELDMAN,63
	1104 MCFARLAND,65	1217 BRINK,64
K 1	1568 HOOPER,66	
CA	1502 MCFARLAND,65	
ZN	1687 POTTIE,66	
KR	0340 LAMPE,57	0357 TOZER,60
	0626 ASUNDI,63	0743 ASUNDI,63
	1105 ENGLANDER-GOLDEN,64	1281 SCHRAM,65
	1459 RAPP,65	1705 SCHRAM,66
	1748 SCHRAM,66	1863 SCHRAM,66
KR 1	0723 LATYPOV,64	
KR 2	0723 LATYPOV,64	
RB	0773 FELDMAN,63	1104 MCFARLAND,65
	1217 BRINK,64	
SR	1502 MCFARLAND,65	
AG	1081 LYUBIMOV,63	
CO	1687 POTTIE,66	
XE	0340 LAMPE,57	0357 TOZER,60
	0626 ASUNDI,63	0743 ASUNDI,63
	1105 ENGLANDER-GOLDEN,64	1281 SCHRAM,65
	1459 RAPP,65	1705 SCHRAM,66
	1748 SCHRAM,66	1863 SCHRAM,66
XE 1	0723 LATYPOV,64	
XE 2	0723 LATYPOV,64	

NORMALIZED	IONIZATION	EXPERIMENTAL
CS	1104 MCFARLAND,65	1217 BRINK,64
	1875 HEIL,66	1972 ZAPESOCHNYI,66
BA	1502 MCFARLAND,65	
HG	0002 COMPTON,25	0004 JONES,27
	0021 TATE,32	0029 LISKA,34
	0040 NOTTINGHAM,39	0069 ARNDT,35
	0224 SMITH,31	0228 BLEAKNEY,30
	0303 RIEDE,54	0974 HARRISON,56
	1329 FOX,61	
HG 1	0723 LATYPOV,64	
HG 2	0723 LATYPOV,64	
TL	1502 MCFARLAND,65	
H2	0002 COMPTON,25	0018 TATE,32
	0041 NEWHALL,42	0260 ENGELHARDT,63
	0320 FITE,58	0335 BOYD,58
	0340 LAMPE,57	0974 HARRISON,56
	1105 ENGLANDER-GOLDEN,64	1106 BOKSENBERG,61
	1281 SCHRAM,65	1459 RAPP,65
	1748 SCHRAM,66	1858 ADAMCZYK,66
	1863 SCHRAM,66	
O2	0018 TATE,32	0323 FITE,59
	0334 STEWART,58	0340 LAMPE,57
	0377 SILVERMAN,57	0853 CRAGGS,57
	0861 PRASAD,61	0938 ASUNDI,63
	0946 GLICK,64	1075 SILVERMAN,64
	1105 ENGLANDER-GOLDEN,64	1106 BOKSENBERG,61
	1281 SCHRAM,65	1289 SCHULZ,62
	1459 RAPP,65	1748 SCHRAM,66
	1838 NISHIMURA,66	1863 SCHRAM,66
N2	0002 COMPTON,25	0018 TATE,32
	0153 COOK,62	0333 STEWART,56
	0340 LAMPE,57	0831 PETERSON,64
	0857 SILVERMAN,65	0946 GLICK,64
	0992 SHERIDAN,61	1105 ENGLANDER-GOLDEN,64
	1106 BOKSENBERG,61	1123 HAYAKAWA,64
	1281 SCHRAM,65	1329 FOX,61
	1459 RAPP,65	1504 MCCONKEY,65
	1748 SCHRAM,66	1863 SCHRAM,66
H2O	0340 LAMPE,57	1782 SCHUTTEN,66
N H3	0340 LAMPE,57	
N O	0018 TATE,32	0340 LAMPE,57
	0946 GLICK,64	1105 ENGLANDER-GOLDEN,64
	1459 RAPP,65	
C2H2	0018 TATE,32	0340 LAMPE,57
N2O	1105 ENGLANDER-GOLDEN,64	1459 RAPP,65
	1771 LATIMER,65	
C O2	0340 LAMPE,57	0865 CRAGGS,60
	0938 ASUNDI,63	0948 BHALLA,60
	1105 ENGLANDER-GOLDEN,64	1459 RAPP,65
	1700 NISHIMURA,66	
C O	0018 TATE,32	0340 LAMPE,57
	0867 CRAGGS,58	0938 ASUNDI,63
	1105 ENGLANDER-GOLDEN,64	1329 FOX,61
	1459 RAPP,65	
H CL	0002 COMPTON,25	0340 LAMPE,57
C H4	0340 LAMPE,57	0356 TOZER,58
	0946 GLICK,64	1105 ENGLANDER-GOLDEN,64
	1459 RAPP,65	1690 SCHRAM,66
	1858 ADAMCZYK,66	1863 SCHRAM,66
H2S	0340 LAMPE,57	
H O	1396 BRIGLIA,65	
D2	0260 ENGELHARDT,63	1105 ENGLANDER-GOLDEN,64
	1281 SCHRAM,65	1459 RAPP,65
	1863 SCHRAM,66	
C2H4	0340 LAMPE,57	1459 RAPP,65
C2H6	0340 LAMPE,57	1690 SCHRAM,66
S F6	0940 ASUNDI,64	1459 RAPP,65
C H3CL	0340 LAMPE,57	
C D4	1690 SCHRAM,66	1863 SCHRAM,66
TE2	1687 POTTIE,66	

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            IONIZATION               EXPERIMENTAL

RELATIVE

   H        1508 MCGOWAN,65

   HE       0027 HUGHES,33           0035 BLEAKNEY,36
            0066 MOHR,34             0280 FITE,63
            0304 HANLE,52            0331 STANTON,60
            0339 OTVOS,56            0353 FOX,58
            0525 KRAUSS,59           0539 HAYAKAWA,55
            0625 JESSE,25            0692 KUYATT,63
            0704 HICKAM,54           0777 BRINK,61
            0986 BLANC,62            1076 ZAPESOCHNYI,63
            1215 HUTCHISON,64        1244 MORRISON,53
            1373 SIMPSON,65          1530 FIQUET-FAYARD,65
            1538 HAIDT,65            1871 LIPELES,65
            1919 FIQUET-FAYARD,65

   LI       0150 BRINK,62

   C        0659 CRAWFORD,62

   NE       0012 BLEAKNEY,30         0066 MOHR,34
            0213 STEVENSON,42        0242 MORRISON,59
            0280 FITE,63             0339 OTVOS,56
            0481 CLOUTIER,59         0525 KRAUSS,59
            0625 JESSE,25            0692 KUYATT,63
            0704 HICKAM,54           0986 BLANC,62
            1039 KANEKO,61           1068 DORMAN,61
            1244 MORRISON,53         1373 SIMPSON,65
            1453 STUBER,65           1920 ZIESEL,65

   NE *     0280 FITE,63

   NE   1   0713 KUPRIYANOV,64

   NA       0150 BRINK,62            0216 TATE,34
            0466 DIBELER,59          1039 KANEKO,61
            1919 FIQUET-FAYARD,65    1920 ZIESEL,65

   MG       1039 KANEKO,61           1920 ZIESEL,65

   AL       0659 CRAWFORD,62

   AR       0012 BLEAKNEY,30         0066 MOHR,34
            0213 STEVENSON,42        0242 MORRISON,59
            0280 FITE,63             0283 FIQUET-FAYARD,63
            0304 HANLE,52            0339 OTVOS,56
            0483 COTTIN,59           0525 KRAUSS,59
            0539 HAYAKAWA,55         0625 JESSE,25
            0692 KUYATT,63           0704 HICKAM,54
            0777 BRINK,61            0781 FOX,60
            0958 MELTON,62           0986 BLANC,62
            1034 FONER,61            1038 KANEKO,61
            1069 DORMAN,59           1070 DORMAN,61
            1100 BECKER,64           1124 FIQUET-FAYARD,62
            1162 FIQUET-FAYARD,62    1244 MORRISON,53
            1373 SIMPSON,65          1453 STUBER,65
            1530 FIQUET-FAYARD,65    1919 FIQUET-FAYARD,65

   AR *     0280 FITE,63

   AR   1   0713 KUPRIYANOV,64

   K        0150 BRINK,62            0216 TATE,34
            0283 FIQUET-FAYARD,63    1039 KANEKO,61
            1124 FIQUET-FAYARD,62    1530 FIQUET-FAYARD,65
            1919 FIQUET-FAYARD,65

   CA       0283 FIQUET-FAYARD,63    1045 KANEKO,63
            1124 FIQUET-FAYARD,62

   FE       1874 COOPER,66

   CO       1874 COOPER,66

   NI       1874 COOPER,66

   CU       0566 BLAIS,60

   ZN       0283 FIQUET-FAYARD,63    0313 HICKAM,54
            1167 FIQUET-FAYARD,63    1578 DE MARIA,65

   SE       1578 DE MARIA,65

   KR       0216 TATE,34             0283 FIQUET-FAYARD,63
            0310 FOX,53              0339 OTVOS,56
            0410 BURNS,61            0523 FROST,55
            0524 FROST,57            0526 FROST,59
            0692 KUYATT,63           0704 HICKAM,54
            0781 FOX,60              0958 MELTON,62
            0986 BLANC,62            1034 FONER,61
            1038 KANEKO,61           1070 DORMAN,61
            1107 MORRISON,64         1137 KISER,62
            1215 HUTCHISON,64        1244 MORRISON,53
            1453 STUBER,65           1530 FIQUET-FAYARD,65
            1919 FIQUET-FAYARD,65

   KR   1   0713 KUPRIYANOV,64       1492 BAKER,65

   KR   2   0713 KUPRIYANOV,64
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            IONIZATION               EXPERIMENTAL

RELATIVE

   RB       0216 TATE,34             0283 FIQUET-FAYARD,63

   SR       0283 FIQUET-FAYARD,63

   AG       0566 BLAIS,60            1578 DE MARIA,65

   CD       0313 HICKAM,54           1578 DE MARIA,65

   TE       1578 DE MARIA,65

   XE       0216 TATE,34             0242 MORRISON,59
            0271 FOX,54              0304 HANLE,52
            0308 KUYATT,64           0310 FOX,53
            0353 FOX,58              0481 CLOUTIER,59
            0525 KRAUSS,59           0591 BURNS,64
            0692 KUYATT,63           0704 HICKAM,54
            0707 FOX,60              0854 CLARKE,54
            0986 BLANC,62            1034 FONER,61
            1069 DORMAN,59           1070 DORMAN,61
            1107 MORRISON,64         1137 KISER,62
            1244 MORRISON,53         1453 STUBER,65

   XE   1   0713 KUPRIYANOV,64

   XE   2   0713 KUPRIYANOV,64

   CS       0216 TATE,34

   AU       0566 BLAIS,60

   HG       0012 BLEAKNEY,30         0014 HAUPT,31
            0066 MOHR,34             0211 MCFADDEN,46
            0215 BELL,39             0313 HICKAM,54
            1070 DORMAN,61           1095 BLEAKNEY,29
            1244 MORRISON,53         1578 DE MARIA,65

   HG   1   0713 KUPRIYANOV,64

   HG   2   0713 KUPRIYANOV,64

   U        1261 MANN,64

   H2       0009 BLEAKNEY,30         0041 NEWHALL,42
            0066 MOHR,34             0170 BAERWALD,25
            0255 SMYTH,24            0339 OTVOS,56
            0539 HAYAKAWA,55         0625 JESSE,25
            0659 CRAWFORD,62         0660 KALLMANN,27
            1164 BRIGLIA,65          1292 BRIGLIA,65
            1303 GEIGER,64           1415 MCGOWAN,65
            1508 MCGOWAN,65

   O2       0167 RANDOLPH,58         0214 HAGSTRUM,41
            0255 SMYTH,24            0334 STEWART,58
            0339 OTVOS,56            0341 FROST,58
            0526 FROST,59            0778 DORMAN,60
            0985 BRION,64            1089 MCGOWAN,64
            1108 DORMAN,63

   N2       0017 VAUGHAN,31          0066 MOHR,34
            0214 HAGSTRUM,41         0271 FOX,54
            0339 OTVOS,56            0523 FROST,55
            0625 JESSE,25            0660 KALLMANN,27
            0778 DORMAN,60           0854 CLARKE,54
            0953 STEWART,55          1038 KANEKO,61
            1068 DORMAN,61           1108 DORMAN,63
            1244 MORRISON,53         1509 FINEMAN,65
            1530 FIQUET-FAYARD,65    1648 ZAPESOCHNYI,61
            1987 HAYAKAWA,65

   H2O      0483 COTTIN,59           0558 SCHULZ,60
            0924 MANN,40             1919 FIQUET-FAYARD,65

  N H3      1068 DORMAN,61           1530 FIQUET-FAYARD,65

  N O       0214 HAGSTRUM,41         0481 CLOUTIER,59
            0854 CLARKE,54           1068 DORMAN,61
            1530 FIQUET-FAYARD,65    1648 ZAPESOCHNYI,61

   CL2      0526 FROST,59            0708 FROST,60

   N2O      0339 OTVOS,56            1067 CURRAN,61
            1916 CONNOLLY,65

  C O2      0339 OTVOS,56            0531 COLLIN,60
            0847 ASUNDI,64           1068 DORMAN,61
            1244 MORRISON,53         1530 FIQUET-FAYARD,65
            1919 FIQUET-FAYARD,65

  C O       0017 VAUGHAN,31          0214 HAGSTRUM,41
            0271 FOX,54              0310 FOX,53
            0339 OTVOS,56            0625 JESSE,25
            0941 FINEMAN,62          1038 KANEKO,61
            1068 DORMAN,61           1096 HOGNESS,28
            1648 ZAPESOCHNYI,61      1742 CUTHBERT,66

  C O   1   1742 CUTHBERT,66

   BR2      0708 FROST,60
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IONIZATION EXPERIMENTAL

RELATIVE

H CL	0339 OTV05•56 1244 MORRISON•53	0707 FOX•60
C H4	0066 MOHR•34 0524 FROST•57 0625 JESSE•25	0339 DTVD5•56 0539 HAYAKAWA•55
I2	0526 FROST•59	0708 FROST•60
H25	0339 OTV05•56	1530 FIQUET-FAYARD•65
P H3	0339 DTV05•56	
C 52	0339 DTV05•56	0531 COLLIN•60
H D	0539 HAYAKAWA•55	
D2	0539 HAYAKAWA•55	
C2H4	0339 OTV05•56	0539 HAYAKAWA,55
C2H6	0339 OTV05•56	
HG2	0211 MCFADOEN,46	
C H3CL	0339 DTV05•56	0524 FR05T•57
C H3BR	0339 OTV05•56	0524 FR05T•57
C H3I	0339 OTV05•56	0524 FR05T•57
1 CL	0708 FRD5T•60	
1 8R	0708 FR05T•60	
H2O2	1132 FDNER•62	
C2N2	0339 OTV05•56	
H C N	0339 OTV05•56	
C H3F	0524 FR05T•57	
U D	1261 MANN•64	
TE2	1578 OE MARIA•65	
5E2	1578 DE MARIA•65	
52	1578 OE MARIA•65	

IONIZATION THEDRETICAL

NORMALIZEO

H	0061 MA55EY•33 0282 YAVOR5KY•45 0390 GELTMAN,56 0461 MDRANO•59 0587 KDGAN•59 0825 KING5TON•64 0844 VELORE•64 0852 PETERKDP•59 0892 8URGE55•63 0996 AKERI8•60 1044 DRAWIN,61 1115 DCHKUR•63 1165 MICHAEL•63 1273 PEACH•65 1436 8URKE•65 1458 OMIOVAR•65 1476 PRE5NYAKDV•65 1544 RUDGE•65 1548 VELORE•63 1595 KING5TON•65 1848 RUDGE•66 1879 VINKALN5•65	0101 VELDRE•62 0307 5TAUFFER•63 0424 MCCARROLL•57 0533 GELTMAN•63 0671 5TA8LER•64 0829 PETERKOP•59 0848 OMIDVAR•64 0863 GRYZIN5KI•64 0913 AKERI8•61 1014 GRYZINSKI•65 1071 DMIOVAR,64 1129 PETERKOP•62 1262 PRA5AD•65 1426 VELDRE•62 1457 VRIEN5•65 1472 VELDRE•65 1541 DCHKUR•65 1547 VELORE•63 1582 VELDRE•65 1655 PEACH•66 1878 VINKALN5•65
H *	0307 5TAUFFER•63 0430 5WAN•55 1071 OMIOVAR•64 1458 DMIDVAR•65 1595 KING5TDN•65 1694 KINGSTON•66	0413 MCCREA•60 0848 DMIDVAR•64 1436 8URKE•65 1526 DMIOVAR•65 1656 PRASAO•66 1848 RUUGE•66
HE	0024 WETZEL•33 0147 NEU•58 0452 GRYZIN5KI•59 0765 ITDH•60 0863 GRYZIN5KI•64 1014 GRYZIN5KI•65 1060 VRIEN5•64 1273 PEACH•65	0061 MA55EY•33 0390 GELTMAN•56 0455 HILL•51 0838 VAN DE WALLE•61 0999 WETZEL•36 1044 DRAWIN•61 1115 DCHKUR•63 1302 5LUAN•65

IONIZATION THEDRETICAL

NORMAI IZED

HE	1345 LEE•65 1484 KUREPA•63 1554 LYA5H•63 1557 8AUER•65 1788 8YRDN•66	1457 VRIENS•65 1506 KINGSTON•65 1555 VELORE•63 1655 PEACH•66
HE *	1060 VRIENS•64	
HE 1	0057 8URGE55•63 0735 8URGE55•60 1060 VRIEN5•64 1772 RUOGE•65	0417 8URGE55•61 0892 BURGESS•63 1436 8URKE•65
LI	0570 GRYZIN5KI•63 1014 GRYZIN5KI•65 1146 WU•44 1272 5HELDON•65 1299 MCODWELL•65 1502 MCFARLANO•65	0873 PEACH•64 1044 DRAWIN•61 1190 WU•40 1273 PEACH•65 1464 MCFARLAND•65 1655 PEACH•66
LI 1	1044 ORAWIN•61	
LI 2	1044 DRAWIN•61	
8E	1273 PEACH•65 1655 PEACH•66	1502 MCFARLAND•65
N	0453 5EATON•59 1557 8AUER•65	1463 RO8INSDN•65
D	0453 5EATON•59 1557 8AUER•65	1463 RO8IN5ON•65
O 4	0143 TREFFTZ•63	1046 MALIK•61
O 5	0143 TREFFTZ•63	0814 VAR5AV5KY•63
NE	0147 NEU•58 0455 HILL•51 1115 OCHKUR•63 1463 RO8IN5DN•65 1506 KING5TON•65	0210 INOKUTI•62 1060 VRIENS•64 1457 VRIEN5•65 1484 KUREPA•63 1557 BAUER•65
NE *	1060 VRIEN5•64	
NE 1	1060 VRIEN5•64	
NA	1272 5HELDON•65 1476 PRE5NYAKDV•65 1654 PEACH•66	1464 MCFARLAND•65 1502 MCFARLANO•65 1655 PEACH•66
MG	1502 MCFARLAND•65 1655 PEACH•66	1654 PEACH•66
AR	0147 NEU•58 1014 GRYZIN5KI•65 1457 VRIEN5•65 1484 KUREPA•63 1557 8AUER•65	0881 GOLANT•59 1060 VRIEN5•64 1463 RDBINSON•65 1506 KING5TDN•65
AR *	1060 VRIEN5•64	
K	1272 5HELDON•65 1502 MCFARLAND•65	1464 MCFARLAND•65
CA	1502 MCFARLANO•65	
CA 1	0960 ZIRIN•62	
FE 13	0443 5CHWARTZ•59 1058 KULANDER•63	0455 HILL•51
FE 14	1849 RUOGE•66	
FE 15	1849 RUOGE•66	
NI	0140 8URHDP•40 0455 HILL•51 1044 DRAWIN•61	0452 GRYZIN5KI•59 1014 GRYZINSKI•65 1115 DCHKUR•63
KR	0147 NEU•58 1484 KUREPA•63	1457 VRIEN5•65 1506 KING5TON•65
R8	1272 5HELDON•65 1502 MCFARLAND•65	1464 MCFARLANO•65
5R	1502 MCFARLAND•65	
5R 1	0960 ZIRIN•62	
AG	0140 8URHOP•40 0455 HILL•51 1014 GRYZIN5KI•65	0452 GRYZIN5KI•59 0999 WETZEL•36
5N 49	0057 8URGE55•63	
XE	0147 NEU•58 1484 KUREPA•63	1457 VRIEN5•65 1506 KING5TON•65

IONIZATION THEORETICAL

NORMALIZED

CS	1165 MICHAEL,63 1502 MCFARLAND,65	1464 MCFARLAND,65
CS *	1272 SHELDON,65	
BA	1502 MCFARLAND,65	
MG	0140 BURHOP,40 0642 PRASAD,63 1060 VRIENS,64 1557 BAUER,65	0455 HILL,51 0783 YAVORSKY,47 1115 OCHKUR,63
HG *	1060 VRIENS,64	
TL	1502 MCFARLAND,65	
NO	1558 BAUER,65	
H2	0147 NEU,58 0455 HILL,51 0863 GRYZINSKI,64 1044 DRAWIN,61 1457 VRIENS,65 1558 BAUER,65	0452 GRYZINSKI,59 0570 GRYZINSKI,63 1014 GRYZINSKI,65 1115 OCHKUR,63 1557 BAUER,65
O2	0642 PRASAD,63 1557 BAUER,65	1457 VRIENS,65 1558 BAUER,65
N2	0147 NEU,58 1457 VRIENS,65 1558 BAUER,65	0642 PRASAD,63 1557 BAUER,65
N O	1557 BAUER,65	
C2H2	1557 BAUER,65	1558 BAUER,65
C O	0642 PRASAD,63 1558 BAUER,65	1557 BAUER,65
C H4	0210 INOKUTI,62	

RELATIVE

H	1144 DE LA RIPELLE,49	
HE	1144 DE LA RIPELLE,49	1673 MITTLEMAN,66
NE	1144 DE LA RIPELLE,49	
NA	1144 DE LA RIPELLE,49	
AR	1144 DE LA RIPELLE,49	
KR	1144 DE LA RIPELLE,49	
AG	1144 DE LA RIPELLE,49	
XE	1144 DE LA RIPELLE,49	
H2	0005 KRAUSS,57	
O2	0005 KRAUSS,57	

DISSOCIATION EXPERIMENTAL

NORMALIZED

H2	0260 ENGELHARDT,63 1566 CORRIGAN,65	0354 CORRIGAN,58
H2 1	1501 DUNN,65	1503 DUNN,65
O2	0376 LASSETTRE,54 1075 SILVERMAN,64	0377 SILVERMAN,57 1460 RAPP,65
N2	0992 SHERIDAN,61	
H2O	0382 LASSETTRE,58	
N O	1460 RAPP,65	
N2O	1460 RAPP,65	
C O2	1460 RAPP,65	
C O	1460 RAPP,65	
D2	0260 ENGELHARDT,63	

RELATIVE

O2	0167 RANDOLPH,58 0778 ODRMAN,60	0526 FROST,59
H2O	0924 MANN,40	
N H3	0924 MANN,40	
N O	0481 CLOUTIER,59	
CL2	0708 FROST,60	
C O	0778 ODRMAN,60	0941 FINEMAN,62
BR2	0708 FROST,60	
I2	0526 FROST,59 0778 OORMAN,60	0708 FROST,60
C CL4	0950 MARRIOTT,54	1231 CRAGGS,62

DISSOCIATION THEORETICAL

NORMALIZED

H2	0194 MASSEY,32 1862 KHARE,66	0695 EDELSTEIN,58
H2 1	0370 IVASH,58 1465 REEK,65	0394 KERNER,53
H2O	0294 NIIRA,49	

RELATIVE

H2	0033 SASAKI,35	

FREE-FREE EMISSION THEORETICAL

NORMALIZED

H	1414 LANE,64	
H 1	1414 LANE,64	
N	0256 DEVORE,64	0939 BREENE,61
N 1	0256 DEVORE,64	
O	0574 BREENE,63	

DISSOCIATIVE IONIZATION EXPERIMENTAL

NORMALIZED

H2	0041 NEWHALL,42 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64 1858 ADAMCZYK,66
O2	0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64
N2	0153 COOK,62 1105 ENGLANDER-GOLDEN,64	0946 GLICK,64 1410 RAPP,65
H2O	1782 SCHUTTEN,66	
N O	0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64
N2O	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65
C O2	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65
C O	1105 ENGLANDER-GOLDEN,64	1410 RAPP,65
C H4	0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-GOLDEN,64 1858 ADAMCZYK,66
D2	1105 ENGLANDER-GOLDEN,64	

RELATIVE

DISSOCIATIVE IONIZATION EXPERIMENTAL

RELATIVE

H2	0007 SASAKI,35 0041 NEWHALL,42 0130 SASAKI,41 0214 HAGSTRUM,41 0364 DUNN,63 0456 BAUER,47 0660 KALLMANN,27	0009 BLEAKNEY,30 0107 HAGSTRUM,51 0135 SASAKI,35 0255 SMYTH,24 0451 STEVENSON,60 0465 SCHAEFFER,50 1402 LOZIER,30
O2	0107 HAGSTRUM,51 0255 SMYTH,24 0526 FROST,59	0214 HAGSTRUM,41 0341 FROST,58 0778 DORMAN,60
N2	0017 VAUGHAN,31 0214 HAGSTRUM,41 0667 TATE,32 0953 STEWART,55	0107 HAGSTRUM,51 0660 KALLMANN,27 0854 CLARKE,54 1543 BRIGLIA,64
H2O	0298 SJOGREN,63 0924 MANN,40	0483 COTTIN,59
N H3	0924 MANN,40	
N O	0107 HAGSTRUM,51 0481 CLOUTIER,59 1691 DORMAN,66	0214 HAGSTRUM,41 1518 HANSON,37
CL2	0526 FROST,59	0708 FROST,60
N2O	1067 CURRAN,61	1691 DORMAN,66
C O	0017 VAUGHAN,31 0214 HAGSTRUM,41 0778 DORMAN,60 1096 HOGNESS,28	0107 HAGSTRUM,51 0667 TATE,32 0941 FINEMAN,62 1742 CUTHBERT,66
BR2	0708 FROST,60	
H CL	1518 HANSON,37	
C H4	0527 GEERK,5[illegible] 1691 DORMAN,66	0539 HAYAKAWA,55
I2	0526 FROST,59 0778 DORMAN,60	0708 FROST,60
C CL4	0133 FOX,61 1231 CRAGGS,52	0950 MARRIOTT,54
O2	0456 BAUER,47	0465 SCHAEFFER,50
C2H4	0539 HAYAKAWA,55	
S F6	0133 FOX,61	
B CL3	1118 MARRIOTT,57	
H2O2	1132 FONER,62	
C2N2	1224 STEVENSON,50	
H C N	1224 STEVENSON,50	
T	0465 SCHAEFFER,50	

DISSOCIATIVE IONIZATION THEORETICAL

RELATIVE

H2	0342 STEVENSON,47 1144 DE LA RIPELLE,49	0364 DUNN,63
O2	0342 STEVENSON,47	

RADIATIVE ATTACHMENT EXPERIMENTAL

NORMALIZED

H	0090 BRANSCOMB,62	1008 BRANSCOMB,62
O	0038 BRANSCOMB,58 1008 BRANSCOMB,62	0090 BRANSCOMB,62
HG	1279 HEY,30	
O2	0090 BRANSCOMB,62	1008 BRANSCOMB,62

RADIATIVE ATTACHMENT EXPERIMENTAL

RELATIVE

F	1774 POPP,65
I	0839 STEINER,64

RADIATIVE ATTACHMENT THEORETICAL

NORMALIZED

H	1166 JEN,33 1316 LOCHTE-HOLTGREVEN,58	1300 MASSEY,36
O	0247 YAMANOUCHI,40 1180 MASSEY,43	1141 BATES,43 1197 BRANSCOMB,57
NA	0297 HUANG,45	1300 MASSEY,36
CL	1300 MASSEY,36	
HG	1300 MASSEY,36	

DISSOCIATIVE RECOMBINATION EXPERIMENTAL

NORMALIZED

O2	1	1344 BIONDI,64	
N2	1	0698 FAIRE,58 1344 BIONDI,64	0703 BIALECKE,58
N H3	1	0887 COURT,64	
N O	1	0920 DOERING,62	
NE2	1	1344 BIONDI,64	
AR2	1	1344 BIONDI,64	
KR2	1	0254 RICHARDSON,52	
CS2	1	0177 HAMMER,63	
N4	1	1344 BIONDI,64	

DISSOCIATIVE RECOMBINATION THEORETICAL

NORMALIZED

H2	1	0368 BAUER,56	1665 WILKINS,66
O2	1	0189 NISBET,63	
N O	1	0189 NISBET,63 1482 GIBBONS,63	0579 SQUIRES,61

RADIATIVE CAPTURE EXPERIMENTAL

NORMALIZED

H	1	0241 FOWLER,59	0346 CRAGGS,47
AR	1	0355 KENTY,28	0969 MIES,61
KR	1	0969 MIES,61	
XE	1	0969 MIES,61	
CS	1	1213 MOHLER,29	
HE2	1	0802 JOHNSON,50	

RELATIVE

AR	1	0969 MIES,61
KR	1	0969 MIES,61
XE	1	0969 MIES,61

RADIATIVE CAPTURE THEORETICAL

NORMALIZED

H 1	0146 BATES,62	0243 BATES,39
	0358 ZANSTRA,46	0444 BATES,62
	1010 STUECKELBERG,30	1414 LANE,64
HE 1	0715 BURGESS,60	0960 ZIRIN,62
O 1	0243 BATES,39	0934 BREENE,61
	1180 MASSEY,43	
MG 9	0455 HILL,51	
CA 1	0960 ZIRIN,62	
FE 13	0455 HILL,51	
SR 1	0960 ZIRIN,62	
CS 1	1805 NORCROSS,66	

RELATIVE

H 1	0245 CILLIE,32	

ROTATIONAL EXCITATION EXPERIMENTAL

NORMALIZED

H2	0260 ENGELHARDT,63	1043 FROST,62
N2	0181 FROST,62	0218 ENGELHARDT,64
	0316 ANDERSON,56	
O2	0260 ENGELHARDT,63	

RELATIVE

H2	0042 BENNETT,42	

ROTATIONAL EXCITATION THEORETICAL

NORMALIZED

H2	0392 GERJUOY,55	0434 CARSON,54
	0702 DALGARNO,65	1093 TAKAYANAGI,64
	1452 TAKAYANAGI,65	1573 SAMPSON,65
	1666 GELTMAN,66	1816 OKSYUK,66
O2	1477 TAKAYANAGI,65	1589 TAKAYANAGI,65
	1666 GELTMAN,66	1676 SAMPSON,66
	1816 OKSYUK,66	
N2	0401 GERJUOY,55	0402 KERNER,53
	1082 MJOLSNESS,64	1341 DALGARNO,63
	1452 TAKAYANAGI,65	1573 SAMPSON,65
	1666 GELTMAN,66	1816 OKSYUK,66
	1852 CHEN,66	
H2O	0385 ALTSHULER,57	
N H3	0385 ALTSHULER,57	
C O	0724 TAKAYANAGI,64	

VIBRATIONAL EXCITATION EXPERIMENTAL

NORMALIZED

H2	0260 ENGELHARDT,63	0984 SCHULZ,64
	1043 FROST,62	
O2	1310 SCHULZ,62	
N2	0218 ENGELHARDT,64	0684 HAAS,57
	0984 SCHULZ,64	
N2O	1478 GEIGER,65	
C O2	1478 GEIGER,65	
C O	0984 SCHULZ,64	
D2	0260 ENGELHARDT,63	
C2H4	1478 GEIGER,65	

RELATIVE

H2	0686 RAMIEN,31	
N2	0098 HARRIES,27	0299 SCHULZ,63
	0328 SCHULZ,59	1021 SCHULZ,62
N2O	0932 SCHULZ,61	
C O2	1065 BOERSCH,64	
C O	0098 HARRIES,27	0328 SCHULZ,59

VIBRATIONAL EXCITATION THEORETICAL

NORMALIZED

H2	0043 WU,47	0184 MASSEY,35
	0434 CARSON,54	0724 TAKAYANAGI,64
	0962 CHEN,62	1488 TAKAYANAGI,65
	1564 BREIG,65	
N2	0402 KERNER,53	0895 CHEN,64
	0964 CHEN,64	1564 BREIG,65
	1852 CHEN,66	
N2O	1478 GEIGER,65	
C O2	1478 GEIGER,65	
C O	1564 BREIG,65	
C2H4	1478 GEIGER,65	

RELATIVE

N2	1331 HERZENBERG,62	

DISSOCIATIVE ATTACHMENT EXPERIMENTAL

NORMALIZED

H2	0324 SCHULZ,59	0957 KHVOSTENKO,58
	0988 RAPP,64	1372 RAPP,64
	1451 RAPP,65	1460 RAPP,65
O2	0131 CHANIN,59	0134 BUCHDAHL,41
	0337 TOZER,58	0766 BUCHELNIKOVA,59
	0853 CRAGGS,57	0861 PRASAD,61
	0938 ASUNDI,63	0943 THOMPSON,59
	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1289 SCHULZ,62	1460 RAPP,65
	1565 CHRISTOPHOROU,65	
H2O	0766 BUCHELNIKOVA,59	1016 HURST,61
N O	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1460 RAPP,65	
N2O	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1460 RAPP,65	
C O2	0865 CRAGGS,60	0938 ASUNDI,63
	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1289 SCHULZ,62	1460 RAPP,65
C O	0867 CRAGGS,58	0938 ASUNDI,63
	0988 RAPP,64	1105 ENGLANDER-GOLDEN,64
	1289 SCHULZ,62	1460 RAPP,65
H CL	0766 BUCHELNIKOVA,59	
I2	0134 BUCHDAHL,41	0541 BIONDI,58
	0654 KEEFFE,62	1064 BIONDI,58
H O	1451 RAPP,65	1460 RAPP,65
O2	1372 RAPP,64	1451 RAPP,65
	1460 RAPP,65	
S F6	0858 HICKAM,56	1460 RAPP,65

DISSOCIATIVE ATTACHMENT EXPERIMENTAL

NORMALIZED

N O2	0776 FOX,60	
H BR	0766 BUCHELNIKOVA,59	
SB CL3	1270 GROH,63	

RELATIVE

H2	0232 BRASEFIELD,29	1592 SCHULZ,65
O2	0018 TATE,32	0107 HAGSTRUM,51
	0166 MUSCHLITZ,57	0167 RANDOLPH,58
	0214 HAGSTRUM,41	0280 FITE,63
	0341 FROST,58	0526 FROST,59
	0699 FROST,58	1525 FITE,65
O2 *	0280 FITE,63	
H2O	0018 TATE,32	0298 SJOGREN,63
	0324 SCHULZ,59	0483 COTTIN,59
	0558 SCHULZ,60	0924 MANN,40
	0957 KHVOSTENKO,58	1117 MUSCHLITZ,56
	1709 TREPKA,63	
N H3	0924 MANN,40	
N O	0018 TATE,32	0107 HAGSTRUM,51
	0214 HAGSTRUM,41	0481 CLOUTIER,59
	1263 FROST,58	1518 HANSON,37
C2H2	0018 TATE,32	
CL2	0526 FROST,59	0708 FROST,60
N2O	0347 KNOX,58	0932 SCHULZ,61
	1067 CURRAN,61	1116 RUDOLPH,59
C O2	0847 ASUNDI,64	
C O	0017 VAUGHAN,31	0018 TATE,32
	0107 HAGSTRUM,51	0214 HAGSTRUM,41
	0481 CLOUTIER,59	0667 TATE,32
	0941 FINEMAN,62	
BR2	0708 FROST,60	
H CL	0699 FROST,58	1119 FOX,57
	1518 HANSON,37	
C H4	1709 TREPKA,63	
I2	0467 FOX,58	0708 FROST,60
	1120 FROST,58	
P H3	1163 EBINGHAUS,64	
C CL4	0133 FOX,61	0950 MARRIOTT,54
	1231 CRAGGS,52	
C2H4	1709 TREPKA,63	
H F	0699 FROST,58	
C2H6	1709 TREPKA,63	
S F6	0133 FOX,61	0481 CLOUTIER,59
	0699 FROST,58	0971 CURRAN,61
	1239 AHEARN,53	
H I	0699 FROST,58	
B CL3	1118 MARRIOTT,57	
H BR	0699 FROST,58	
C2N2	1230 MCDOWELL,52	1231 CRAGGS,52
C F4	1231 CRAGGS,52	
O3	1066 CURRAN,61	
AS H3	1163 EBINGHAUS,64	
SI H4	1163 EBINGHAUS,64	

DISSOCIATIVE ATTACHMENT THEORETICAL

NORMALIZED

H2	0207 CHEN,63

TOTAL SCATTERING EXPERIMENTAL

NORMALIZED

H	0305 MAECKER,55	0322 BRACKMANN,58
	0454 DRAWIN,56	0493 KOLESNIKOV,62
	0502 WIESE,63	0538 HAMMER,56
	1018 NEYNABER,61	
HE	0001 BRODE,25	0010 NORMAND,30
	0072 MAYER,21	0073 RAMSAUER,21
	0074 RAMSAUER,21	0082 BRUCHE,27
	0086 RAMSAUER,29	0094 RAMSAUER,32
	0116 FUCHTBAUER,34	0160 GREEN,30
	0161 PALMER,31	0174 KOLLATH,28
	0186 RAMSAUER,23	0192 FRANCIS,47
	0201 TOWNSEND,23	0233 DOUGAL,58
	0249 CHEN,61	0306 ANDERSON,55
	0312 PHELPS,51	0314 GOULD,54
	0317 ANDERSON,56	0454 DRAWIN,56
	0530 PACK,61	0594 HIRSHFIELD,58
	0637 LANGMUIR,28	0819 BOWE,60
	0869 GOLDEN,65	0888 PHELPS,60
	0995 GOODRICH,37	1041 BULEWICZ,62
	1062 FROST,64	1348 GOLDAN,65
	1473 HARRIS,63	1489 CROMPTON,65
	1591 KOZLOV,65	1786 KOZLOV,65
HE *	0868 NEYNABER,64	
HE 1	0233 DOUGAL,58	0306 ANDERSON,55
LI	0016 PEREL,62	
C	0305 MAECKER,55	
N	0026 NEYNABER,63	0305 MAECKER,55
O	0305 MAECKER,55	0325 LIN,59
	1013 NEYNABER,61	1490 SUNSHINE,65
	1577 DAIBER,65	
F	0559 MAECKER,56	
NE	0010 NORMAND,30	0074 RAMSAUER,21
	0082 BRUCHE,27	0084 BRUCHE,29
	0086 RAMSAUER,29	0094 RAMSAUER,32
	0116 FUCHTBAUER,34	0174 KOLLATH,28
	0186 RAMSAUER,23	0312 PHELPS,51
	0637 LANGMUIR,28	0819 BOWE,60
	1019 CHEN,64	1041 BULEWICZ,62
	1400 GILARDINI,57	1473 HARRIS,63
NA	0006 BRODE,29	0016 PEREL,62
AR	0001 BRODE,25	0010 NORMAND,30
	0072 MAYER,21	0073 RAMSAUER,21
	0074 RAMSAUER,21	0075 RAMSAUER,23
	0076 RUSCH,26	0082 BRUCHE,27
	0086 RAMSAUER,29	0094 RAMSAUER,32
	0095 RAMSAUER,32	0116 FUCHTBAUER,34
	0160 GREEN,30	0174 KOLLATH,28
	0175 GAERTNER,31	0186 RAMSAUER,23
	0197 TOWNSEND,22	0199 TOWNSEND,22
	0292 ENGELHARDT,64	0312 PHELPS,51
	0454 DRAWIN,56	0530 PACK,61
	0538 HAMMER,56	0637 LANGMUIR,28
	0819 BOWE,60	0846 ABERTH,64
	1007 BRODE,32	1041 BULEWICZ,62
	1062 FROST,64	1473 HARRIS,63
	1577 DAIBER,65	1591 KOZLOV,65
	1752 WAHLIN,31	1786 KOZLOV,65
	1891 ABERTH,63	1962 GOLDEN,66
K	0006 BRODE,29	0016 PEREL,62
FE	0305 MAECKER,55	
ZN	0008 BRODE,30	0046 BRODE,25
KR	0075 RAMSAUER,23	0086 RAMSAUER,29
	0095 RAMSAUER,32	0118 FUCHTBAUER,35
	0174 KOLLATH,28	0186 RAMSAUER,23
	0312 PHELPS,51	0439 PACK,62
	0819 ROWE,60	1062 FROST,64
RB	0006 BRODE,29	
CD	0008 BRODE,30	0046 BRODE,25
XE	0075 RAMSAUER,23	0086 RAMSAUER,29
	0095 RAMSAUER,32	0117 FUCHTBAUER,35
	0186 RAMSAUER,23	0312 PHELPS,51
	0439 PACK,62	0819 BOWE,60
	1062 FROST,64	
CS	0006 BRODE,29	0016 PEREL,62
	0132 MORGULIS,63	0149 MIRLIN,62
	0182 CHEN,62	0764 BOECKNER,33
	0768 MULLANEY,61	0769 FLAVIN,63
	0785 ROEHLING,63	0850 FLAVIN,63
	0872 MEYERAND,64	1473 HARRIS,63

TOTAL SCATTERING EXPERIMENTAL

NORMALIZEO

CS	1 0764 BOECKNER,33	
HG	0021 TATE,32	0046 BROOE,2S
	0047 BRODE,29	0069 ARNOT,3S
	0I17 FUCHTBAUER,35	0IS7 JONES,28
	0160 GREEN,30	0161 PALMER,3I
	0172 BEUTHE,27	0S98 MCCUTCHEN,S8
	0637 LANGMUIR,28	067S SIMONS.38
	1746 MAXWELL.26	
TL	00I3 BRODE,31	
H2	0001 BRODE,25	00I0 NORMAND,30
	0072 MAYER,21	0073 RAMSAUER,21
	0077 BRUCHE,26	0079 BRUCHE,27
	0087 RAMSAUER,30	0093 RAMSAUER,30
	0094 RAMSAUER,32	0I60 GREEN,30
	0174 KOLLATH,28	0I75 GAERTNER,31
	0I81 FROST,62	0186 RAMSAUER,23
	0I88 BERNSTEIN,62	0I9S TOWNSEND,21
	0I99 TOWNSEND,22	0240 VARNERIN,51
	0312 PHELPS,51	03S2 CROMPTON,52
	0360 BEKEFI,S8	0530 PACK,61
	0S38 HAMMER,56	0637 LANGMUIR,28
	068S FORESTER,61	1043 FROST,62
	I375 GOLDEN,6S	1507 OUBOVOI.60
	I787 GOLDEN,66	
O2	0087 RAMSAUER,30	0195 TOWNSEND,21
	0259 BRUCHE,27	0377 SILVERMAN,57
	0846 ABERTH,64	1S77 OA1BER,65
	189I ABERTH,63	
N2	0001 BRODE,2S	00I0 NORMAND,30
	0026 NEYNABER,63	0037 FISK,37
	0072 MAYER,21	0073 RAMSAUER,21
	0077 BRUCHE,26	0079 BRUCHE,27
	0087 RAMSAUER,30	0174 KOLLATH,28
	0I81 FROST,62	0186 RAMSAUER,23
	0195 TOWNSEND,21	0218 ENGELHAROT,64
	0312 PHELPS,51	0316 ANOERSON,56
	0352 CROMPTON,52	0S30 PACK,61
	0637 LANGMUIR,28	0684 HAAS,S7
	0685 FORESTER,61	0687 BAYES,62
	0846 ABERTH,64	0982 STOTZ,63
	I041 BULEWICZ,62	I043 FROST,62
	1473 HARRIS,63	1S77 OA18ER,65
	IS91 KOZLOV,6S	I786 KOZLOV,65
	1891 ABERTH,63	
H2O	0084 BRUCHE,29	0439 PACK,62
	0687 BAYES,62	14S0 TAKEOA,60
N H3	0084 BRUCHE,29	0439 PACK,62
	0687 BAYES,62	
N O	0200 SKINKER,23	02S9 BRUCHE,27
C2H2	0085 BRUCHE,29	
CL2	0037 FISK,37	0682 BA1LEY,3S
N2O	0093 RAMSAUER,30	0159 BA1LEY,32
	0174 KOLLATH,28	0200 SKINKER,23
	0259 BRUCHE,27	0439 PACK,62
	0687 BAYES,62	
C O2	0072 MAYER,21	008I RAMSAUER,27
	0087 RAMSAUER,30	0093 RAMSAUER,30
	0094 RAMSAUER,32	0I74 KOLLATH,28
	0198 SKINKER,22	0259 BRUCHE,27
	0439 PACK,62	068S FORESTER,61
	0687 BAYES,62	
C O	000I BROOE,25	00I0 NORMAND,30
	0087 RAMSAUER,30	0094 RAMSAUER,32
	0174 KOLLATH,28	0200 SKINKER,23
	0259 BRUCHE,27	0439 PACK,62
BR2	0683 BAILEY,37	
H CL	0080 BRUCHE,27	
C H4	0001 BROOE,25	0084 BRUCHE,29
	0087 RAMSAUER,30	0089 BRUCHE,30
	0174 KOLLATH,28	0192 FRANCIS,47
	0259 BRUCHE,27	068S FORESTER,61
	0973 FROMMHOLO,59	1833 F1NK,6S
O4	0991 HOLST,31	
I2	0677 HEALEY,38	
C CL4	099I HOLST,31	
O2	0188 BERNSTEIN,62	0439 PACK,62
	1375 GOLOEN,6S	1428 HALL,S5
	1787 GOLDEN,66	

TOTAL SCATTERING EXPERIMENTAL

NORMAlIZEO

C2H4	008S BRUCHE,29	0203 BANNON,28
	0685 FORESTER,61	
C2H6	0089 BRUCHE,30	
S O2	0687 BAYES,62	
C H3CL	0991 HOLST,31	
H C N	0687 BAYES,62	

RELATIVE

HE	0469 HUGHES,35	
NE	0126 RUSCH,2S	
AR	0126 RUSCH,2S	0171 ZACHMANN,27
K	0016 PEREL,62	0329 RUBIN,60
KR	0126 RUSCH,25	
CD	0180 MINKOWSK1,23	
HG	0163 PEARSON,31	0180 MINKOWSKI,23
	0486 KESSLER,6S	
H2	0126 RUSCH,25	0170 BAERWALD,25
	0171 ZACHMANN,27	
O2	1013 NEYNABER,61	
C H4	0209 GLOCKLER,24	

TOTAL SCATTERING THEORETICAL

NORMALIZED

HE	0060 OMALLFY,63	
LI	0810 OAMBURG,60	0990 KARULE,64
NE	0060 OMALLEY,63	
NA	0810 OAMBURG,60	
AR	0060 OMALLEY,63	0452 GRYZINSKI,59
K	0810 OAMBURG,60	
KR	0060 OMALLEY,63	
XE	0060 OMALLFY,63	
CS	0810 OAMBURG,60	1023 SALMONA,61
	1282 ROB1NSON,62	

TOTAL ELASTIC SCATTERING EXPERIMENTAL

NORMALIZED

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HE     1196 MARDER,56
NE     1196 MARDER,56
AR     1196 MARDER,56
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TOTAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

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H      0083 BURKE,63                0148 DAMBURG,63
       0204 TEMKIN,62               0490 SCHWARTZ,61
       0536 ROTENBERG,62            0709 RUFFINE,60
       0859 SMITH,60                0905 MASSEY,58
       0906 MOUSSA,59               0917 SPRUCH,60
       1015 SMITH,61                1025 KINGSTON,61
       1192 DRACHMAN,65             1210 MOISEIWITSCH,58
       1422 MCEACHRAN,65            1443 HAHN,64
       1494 ALLISON,61              1495 BRANSDEN,62
       1499 HAHN,65                 1500 KLEINMAN,65
       1571 STONE,66                1580 ARMSTEAD,65
       1900 KLEINMAN,65

H *    0859 SMITH,60

HE     0905 MASSEY,58               1121 MALIK,61
       1195 TEUTSCH,56              1485 KESTNER,65
       1494 ALLISON,61              1819 DRACHMAN,66

C      1121 MALIK,61

N      1121 MALIK,61

O      1121 MALIK,61

F      1121 MALIK,61

NE     0905 MASSEY,58               1121 MALIK,61
       1195 TEUTSCH,56

AR     0905 MASSEY,58               1121 MALIK,61
       1195 TEUTSCH,56

U   6  1519 SINGH,62

H2     0905 MASSEY,58
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DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

NORMALIZED

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H      0490 SCHWARTZ,61             0536 ROTENBERG,62
       0544 MOISEIWITSCH,59         0906 MOUSSA,59

HE     0544 MOISEIWITSCH,59
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ELECTRONIC EXCITATION THEORETICAL

NORMALIZED

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H      0083 BURKE,63                0148 DAMBURG,63
       0859 SMITH,60                1257 MOISEIWITSCH,65

H *    0859 SMITH,60
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ELECTRON DETACHMENT THEORETICAL

NORMALIZED

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H -    0576 RUDGE,64
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IONIZATION THEORETICAL

NORMALIZED

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H      0645 CHESHIRE,64
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$N_2 - (CH)_2$ und $O_2 - [(NH)_2] - (CH_2)_2$
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